

***Invitation for Bid
A/B-3035-01/GG***

Roadway Landscape Maintenance

SEMINOLE COUNTY



FLORIDA

**DUE DATE: November 9, 2001
at 2:00 P.M.**

<p>Submit Bid to:</p> <p>SEMINOLE COUNTY SERVICES BUILDING 1101 E. 1st Street, Room 3208 Sanford, Florida 32771-1468</p> <p>Attn.: Purchasing</p>	<p>ANNUAL BID AGREEMENT</p> <p>INVITATION FOR BID FOR : A/B-3035-01/GG for ROADWAY LANDSCAPE MAINTENANCE and Bidder Acknowledgment</p>
<p><u>Contact:</u></p> <p>Gloria M. Garcia, CPPB, Senior Buyer (407) 665-7123 ggarcia@co.seminole.fl.us</p>	<p>BIDDER NAME: _____</p> <p>MAILING ADDRESS: _____</p> <p>_____</p> <p>_____</p> <p>Phone# : _____</p> <p>Fax# : _____</p> <p>Email address: _____</p>
<p><u>Pre-Bid Conference Date:</u></p> <p><u>October 25, 2001 at 9:00 AM</u></p>	<p><u>Pre-Bid Location:</u></p> <p>County Services Building, Room 3208, Purchasing Conference Room 1101 E. 1st Street, Sanford, Florida 32771</p>
<p><u>Bid Due Date & Time:</u></p> <p><u>November 9, 2001 at 2:00 PM</u></p>	<p><u>Location of Public Opening:</u></p> <p>County Services Building, Room 3208, Purchasing Conference Room 1101 E. 1st Street, Sanford, Florida 32771</p>

GENERAL CONDITIONS, INSTRUCTIONS AND INFORMATION FOR BIDDERS

These documents constitute the complete set of terms and conditions, specification requirements, and bid forms. All bid sheets and attachments must be executed and submitted in a sealed envelope. The face of the envelope shall contain Bidder's name, return address, the date and time of bid opening, the bid number and title. Bids not submitted on the enclosed Bid Form shall be rejected. Bidders shall submit three (3) complete sets (one [1] original and two [2] copies) of their bid, complete with all supporting documentation. SUBMITTAL OF A BID IN RESPONSE TO THIS INVITATION TO BID CONSTITUTES AN OFFER BY THE BIDDER. Bids which do not comply with these requirements may be rejected at the option of the County.

RESPONDENT/ RECOMMENDATION OF AWARD INFORMATION: The tabulation sheet will be posted in the Seminole County Web Site at www.co.seminole.fl.us/business/purchasing the day following the due date. Upon determination of the recommendation of award, the tabulation sheet will be updated with this information.

CONTACT: All prospective bidders are hereby instructed not to contact any member of the Seminole County Board of County Commissioners, County Manager, or Seminole County Staff member other than the noted contact person regarding this Invitation to Bid or their bid proposal at any time prior to the posting on the web of the final evaluation and recommendation ranking by County staff for this project. Any such contact shall be cause for rejection of your bid proposal.

DELAYS: The County, at its sole discretion, may delay the scheduled due dates indicated above if it is to the advantage of the County to do so. The County will notify bidders of all changes in scheduled due dates by written addendum.

EXECUTION OF BID: Bid must contain a manual signature, in ink, of an authorized representative, who has the legal ability to bind the Bidder in contractual obligations in the space provided on the Bid Response Form. Failure to properly sign the Bid shall invalidate same, and it shall not be considered for award. Bid must be typed or legibly printed in ink. Use of erasable ink is not permitted. All corrections made by Bidder to any part of the bid document must be initialed in ink. The original bid conditions and specifications cannot be changed or altered in any way. Altered bids will not be considered. Clarification of bids submitted shall be in letter form, signed by bidders and attached to the bid.

BIDDER INFORMATION: Bidder shall complete either the "Corporate Authority", "Joint Venture", "Sole Proprietorship", or "Partnership" portion of the Bidder Information Sheet, whichever part applies, and include with their bid submittal.

JOINT VENTURES: Bids submitted by firms under "joint venture" arrangements or other multi-party agreements must submit a power of attorney delegating authority to one principal with authority to negotiate and execute any/all contract documents resulting from negotiations/award of this Invitation to Bid.

NO BID: If not submitting a bid, respond by returning only the Statement of No Bid, and give the reason in the space provided. Failure to respond three (3) times in succession without justification may be cause for removal of the Bidders name from the mailing list.

BID OPENING: Shall be public, at the above address, on the date and at the time specified above. The bid time shall be scrupulously observed. Under no circumstances shall bids delivered after the time specified be considered; such bids will be returned unopened. The County will not be responsible for late deliveries or delayed mail. The time/date stamp clock located in the Purchasing Division shall serve as the official authority to determine lateness of any bid. It is the Bidders sole responsibility to assure that his/her bid

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is complete and delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. Offers by facsimile, telegram or telephone are **not** acceptable. A bid may **NOT** be altered by the Bidder after opening of the bids. Bid tabulations will be furnished upon written request which includes a self-addressed, stamped envelope.

Persons with disabilities needing assistance to participate in the Public Bid Opening should call the contact person at least 48 hours in advance of the meeting at 407-665-7123.

TAXES: The County is exempt from Federal Excise and State Sales Taxes on direct purchases of tangible personal property. The County's exemption numbers are on the face of the purchase order. If requested, the Purchasing Manager will provide an exemption certificate to the awarded Bidder. (A copy is included as the inside back cover of the Vendor Guide.) Vendors/contractors doing business with the County shall **not** be exempted from paying sales tax to their suppliers for materials to fulfill contractual obligations with the County nor shall any Vendor/Contractor be authorized to use the County's Tax Exemption Number in securing such materials.

DISCOUNTS: Cash discounts for prompt payment shall **not** be considered in determining the lowest net cost for bid evaluation purposes.

MISTAKES: Bidders are expected to examine the terms and conditions, specifications, delivery schedule, bid prices, extensions and all instructions pertaining to supplies and services. **FAILURE TO DO SO WILL BE AT BIDDER'S RISK.** In the event of extension error(s), the unit price will prevail and the Bidder's total offer will be corrected accordingly. Written amounts shall take precedence over numerical amounts. In the event of addition errors(s), the unit price, and extension thereof, will prevail and the Bidder's total offer will be corrected accordingly. Bids having erasures or corrections must be initialed in ink by the Bidder.

INVOICING AND PAYMENT: Payment for any and all invoice(s) that may arise as a result of a contract or purchase order issued pursuant to this bid specification shall minimally meet the following conditions to be considered as a valid payment request:

- a. A timely submission of a properly certified invoice(s), in strict accordance with the price(s) and delivery elements as stipulated in the contract or purchase order document, and be submitted to the Clerk, BCC, at the address as stipulated on the Purchase Order.
- b. All invoices submitted shall consist of an original and one (1) copy; clearly reference the subject contract or purchase order number; provide a sufficient

salient description to identify goods or service for which payment is requested; contain date of delivery; original or legible copy of signed delivery receipt including both manual signature and printed name of a designated County employee or authorized agent; be clearly marked as "partial", "complete" or "final" invoice. The County will accept partial deliveries.

- c. The invoice shall contain the Bidder's Federal Employer Identification Number (F.E.I.N.).
- d. The County's terms are "Net 30 Days" after acceptance of goods or services and receipt of an acceptable invoice as described herein. Any discounts must be offered on the Bid Response Form.

DELIVERY: Unless actual date is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order or contract in space provided. Delivery time may be a basis for making of award. Delivery shall be during the normal working hours of the user department, Monday through Friday, unless otherwise specified and incorporated into contract or purchase order document. Delivery shall be to the location specified in the bid specifications.

GENERAL: Seminole County, having limited storage facilities, requires the service of private firms to provide materials, supplies and/or services on an as needed basis, as indicated herein, to support County's needs.

ADDITIONAL TERMS AND CONDITIONS: Unless expressly accepted by the County, the following conditions shall apply: No additional terms and conditions included with the bid response shall be considered. Any and all such additional terms and conditions shall have no force and effect, and are inapplicable to this bid if submitted either purposely through intent or design, or inadvertently appearing separately in transmittal letters, specifications, literature, price lists or warranties. It is understood and agreed that the general and/or any special conditions in these Bid Documents are the only conditions applicable to this bid and the Bidder's authorized signature on the Bid Response Form attests to this. Exceptions to the terms and conditions will not be accepted.

INTERPRETATIONS: All Bidders shall carefully examine the Bid Documents. Any ambiguities or inconsistencies shall be brought to the attention of the County in writing prior to the opening of Bids; failure to do so, on the part of the Bidder, will constitute an acceptance by the Bidder of any subsequent decision. Any questions concerning the intent, meaning and interpretations of the Bid Documents shall be requested in writing, and received by the County at least seven (7) calendar days prior to the Bid Opening. Inquires shall be

addressed to the attention of the Contact person as indicated on Page 1. No person is authorized to give oral interpretations of, or make oral changes to, the bid. Therefore, oral statements given before the bid opening will not be binding. Any interpretation of, or changes to, the bid will be made in the form of a written Addendum to the bid and will be furnished to all Bidders. Receipt of all addenda shall be acknowledged by the Bidders by signing and enclosing said addenda with their bid.

ADDENDUM: The County will record its responses to inquiries, any supplemental instructions, and/or necessary revisions to Bid Documents, in the form of a written addendum. Should revisions to the Bid Documents become necessary, the County will provide a written addendum to all Bidders who received a bid package from the County's Purchasing Division. Bidders who obtain Bid Documents from other sources must officially register with the County's Purchasing Division in order to be placed on the mailing list for any forthcoming addenda or other official communications. Failure to register as a prospective Bidder may cause your bid to be rejected as non-responsive if you have failed to submit a bid without an addendum acknowledgment for the most current addendum.

All Bidders should contact the County at least **seven (7) calendar days** before the bid opening date to ascertain whether any addenda have been issued. Failure to do so could result in rejection of the bid as unresponsive. The County shall not be responsible for providing said addendum to Bidders who receive bid packages from other sources.

Previous addenda are deemed received when a subsequent addendum is acknowledged. It is the Bidders' responsibility to contact the County in the event that a previous addendum is not received. Latest addendum shall be signed and returned with the bid as acknowledgment of addendum.

PROTESTS: Any Bidder who disputes the bid selection or contract award recommendation shall file such protest according to the bid protest procedures. These procedures are available upon request from the County.

CONFLICT OF INTEREST: All Bidders must disclose with their bid the name of any officer, director, or agent who is also an employee of the County. All Bidders must disclose the name of any County employee who owns, directly or indirectly, an interest of five percent (5%) or more in the Bidder's firm or any of its branches.

LEGAL REQUIREMENTS: Bidders are required to comply with all provisions of Federal, State, County and local laws and ordinances, rules and regulations, that are applicable to the items being bid. Lack of knowledge by the Bidder shall in no way be a cause for relief from

responsibility, or constitute a cognizable defense against the legal effect thereof.

DRUG-FREE WORKPLACE: M/WBE is a business entity which is owned and operated by a minority. In this instance, minority group members are citizens of the United States or lawfully admitted permanent residents who are Black, Hispanics, women, Native Americans, Asian-Pacific, Asian-Indian, and eligible others. An M/WBE wishing to participate in the County procurement process may contact the Purchasing Division for information and assistance. Whenever two or more bids which are equal with respect to price, quality, and service are received by the County for the procurement of commodities or contractual services, a bid received from a M/WBE entity shall be given preference in the award process.

MINORITY/WOMEN BUSINESS ENTERPRISES

(M/WBE): M/WBE is a business entity which is owned and operated by a minority. In this instance, minority group members are citizens of the United States or lawfully admitted permanent residents who are Black, Hispanics, women, Native Americans, Asian-Pacific, Asian-Indian, and eligible others. An M/WBE wishing to participate in the County procurement process may contact the Purchasing Division for information and assistance.

POSTING OF BID AWARD: Recommendation for award will be posted for review by interested parties at the Purchasing Division bulletin board and the County's Web Page (www.co.seminole.fl.us/business/purchasing)

prior to submission to the appropriate level of authority for final approval of award, and will remain posted for a period of five (5) working days. Failure to file a protest to the Purchasing Manager within the time prescribed in the COUNTY's Purchasing Manual, shall constitute a waiver of proceedings.

EEO STATEMENT: The County is committed to assuring equal opportunity in the award of contracts, and, therefore complies with all laws prohibiting discrimination on the basis of race, color, religion, national origin, age or sex.

CONTRACTUAL AGREEMENT: The terms, conditions, and provisions in this Invitation to Bid shall be merged into the final contract or purchase order. The order of precedence will be general law, the purchase order or contract, Invitation to Bid, and response. Any and all legal action necessary to enforce a contract or purchase order will be interpreted according to the laws of Florida. The venue shall be Seminole County, Florida.

GOVERNMENTAL RESTRICTIONS: In the event that any governmental restrictions are imposed which would necessitate alteration of the material quality, workmanship or performance of the items offered on this bid prior to their delivery, it shall be the responsibility of

the Bidder to notify the Purchasing Division at once, indicating in his/her letter the specific regulation which required an alteration, including any price adjustments occasioned thereby. The County reserves the right to accept such alteration or to cancel the contract or purchase order at no further expense to the County.

PERMITS/LICENSES/FEES: Any permits, licenses, or fees required will be the responsibility of the Contractor, no separate or additional payment will be made.

Adherence to all applicable code regulations (Federal, State, County, City) are the responsibility of the Contractor.

INDEMNIFICATION: The Bidder, without exemption, shall indemnify and save harmless, the County, its employees and/or any of its Board Members from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or item manufactured by the Bidder. Further, if such a claim is made, or is pending, the Bidder may, at its option and expense, procure for the County the right to use, replace or modify the item to render it non-infringing. If none of the alternatives are reasonably available, the County agrees to return the article on request to the Bidder and receive reimbursement. If the Bidder used any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood, without exception, that the bid prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

ADVERTISING: In submitting a bid, Bidder agrees not to use the results therefrom as a part of any commercial advertising, without the express written approval, by the appropriate level of authority within the County.

ASSIGNMENT: Any purchase order or contract issued pursuant to this Invitation to Bid and the monies which may become due hereunder are not assignable except with the prior written approval of the County, through the Purchasing Division.

COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH:

Bidder certifies that all material, equipment, etc., contained in his/her bid meets all applicable O.S.H.A. requirements. Bidder further certifies that, if he/she is the successful Bidder, and the material, equipment, etc., delivered is subsequently found to be defective in any applicable O.S.H.A. requirement in effect on the date of delivery, all costs necessary to comply with the requirements shall be borne by the Bidder.

FACILITIES: The County reserves the right to inspect the Bidder's facilities at any reasonable time, during normal working hours, to determine that Bidder has a bona fide place of business, and is a responsible Bidder.

DISQUALIFICATION OF BIDDER: More than one bid from an individual, firm, partnership, corporation, or association under the same or different names will not be considered. Reasonable grounds for believing that a Bidder is involved in more than one bid submittal will be cause for rejection of all bids in which such Bidders are believed to be involved. Any or all bids will be rejected if there is reason to believe that collusion exists between Bidders. Bids in which the prices obviously are unbalanced will be subject to rejection.

ADJUSTMENTS / CHANGES / DEVIATIONS: No adjustments, changes or deviations shall be accepted on any item unless conditions or specifications of a bid expressly so provide. Any other adjustments, changes or deviations shall require prior written approval, and shall be binding **ONLY** if issued by the County's Purchasing Division. The Bidder shall bear sole responsibility for any and all costs of claims arising from any adjustments, changes or deviations not properly executed as required herein.

INSURANCE: The awarded Bidder(s) shall maintain insurance coverage reflecting at least the minimum amounts and conditions specified in the attached Sample Contract or the Special Terms and Conditions. In the event the Bidder is a governmental entity or a self-insured organization, different insurance requirements may apply. Misrepresentation of any material fact, whether intentional or not, regarding the Bidders insurance coverage, policies or capabilities may be grounds for rejection of the bid and rescission of any ensuing Purchase Order or contract.

PUBLIC RECORDS: Upon award recommendation or ten (10) days after opening, whichever is earlier, bids become "public records" and shall be subject to public disclosure consistent with Chapter 119.07(3)(o), Florida Statutes. Bidders must invoke the exemptions to disclosure provided by law in the response to the Bid, and must identify the data or other materials to be protected, and must state the reasons why such exclusion from public disclosure is necessary.

Proposals may be reviewed at the County Services Building, County Commission Records Office, 2nd Floor, Room 2204.

BID PREPARATION COSTS: Neither the COUNTY nor its representatives shall be liable for any expenses incurred in connection with preparation of a response to this Invitation to Bid. Bidders should prepare their bids simply and economically, providing all information and prices as required.

ACCEPTANCE / REJECTION: Seminole County reserves the right to accept or reject any or all bids and to make the award to that Bidder, who in the opinion of

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the County will be in the best interest of and/or the most advantageous to the County. Seminole County also reserves the right to reject the bid of any vendor who has previously failed in the proper performance of an award or to deliver on time contracts of a similar nature or who, in the County's opinion, is not in a position to perform properly under this award. Seminole County reserves the right to inspect all facilities of bidders in order to make a determination as to the foregoing. Seminole County reserves the right to waive any irregularities, informalities, and technicalities in offers received, and may, at its discretion, request a re-bid, or abandon the project/procurement in its entirety.

ANY AND ALL SPECIAL TERMS AND CONDITIONS, TECHNICAL REQUIREMENTS, SCOPE OF WORK OR SPECIFICATIONS ATTACHED HERETO WHICH VARY FROM THESE GENERAL CONDITIONS SHALL HAVE PRECEDENCE.

SPECIAL TERMS & CONDITIONS

This Invitation for Bid describes highly visible areas that generate wide interest within Seminole County. County expectations are to receive the highest quality service to maintain a manicured landscape appearance.

PRE-BID CONFERENCE

A Pre-Bid Conference will be held at the address, date and time as specified on Page 1 of the Invitation to Bid, open to all interested parties, at which time County staff will be present to answer questions and explain the intent of the Bid Documents. Following the Pre-Bid Conference, any suggested modifications may be presented in writing to, or discussed with the County's representative(s) as a possible addendum to the Invitation to Bid. Attendance is non-mandatory, but highly recommendable

POST AWARD MEETING

Within 3 days after receipt of notification of award of bid, awarded Bidder shall meet with the County's representative(s) to discuss job procedures and scheduling.

Awarded Bidder shall contact Jimmie Brown at (407) 665-5620, to arrange a meeting.

PERFORMANCE PROBATION PERIOD

The successful awardee(s) will immediately enter into a three (3) month probationary period upon contract award. During this time the awardee's performance will be closely scrutinized by County staff. If the awardee's performance fails to consistently meet the standards specified within the bid, his/her contract will be promptly canceled. If his/her performance is acceptable, then he/she will be so notified and the contract will extend through the stated expiration date.

PROJECT MANAGEMENT

A Contract Manager shall be designated by the County. During the course of the contract, the Contract Manager will be the County's representative, and be responsible for assuring the proper completion of the contract by the awarded Bidder.

APPAREL

Contractors personnel shall wear appropriate apparel while on County property, as directed by the Contract Manager. When mowing in high traffic areas, personnel are required to wear safety vests, as directed by Contract Manager.

SCHEDULING

All work hours and schedules shall be as arranged and approved by the County.

AWARD

The County anticipates award to the Respondent (s) who submit the lowest priced, responsive, responsible bids. As the best interest of the County may require, the right is reserved to make award(s) by individual item, group of items, "All or None", or a combination thereof; with one or more suppliers; to reject any or all bids, or waive any minor irregularity or technicality in bids received, and may, at its sole discretion, request a re-bid, or abandon the project in its entirety. Bidders are cautioned to make no assumption until the County has entered into a contract or issued a purchase order.

INSPECTION OF FACILITIES

It is the Bidder's responsibility to become fully informed as to the nature and extent of the work required and its relation to any other work in the area, including possible interference from other site activities. Any clarification of questions regarding the quality of maintenance standards should be directed to Jimmie Brown, telephone number (407) 665-5620. **Failure to visually inspect the facilities may be cause for disqualification of your bid. Look in the Attachments for the Inspection of Facilities Certification Form. This form shall be signed and included in your bid submittals.**

CONTRACT TERM/RENEWAL/TERMINATION

- a. The contract resulting from this Invitation to Bid shall commence upon execution by both parties and extend for a period of twenty four (24) months. The contract may be renewed for three (3) additional twelve (12) month periods, up to a maximum sixty (60) months upon mutual agreement of both parties. If any such renewal results in changes in the terms or conditions, such changes shall be reduced to writing as an addendum to this contract and such addendum shall be executed by both parties. Renewal of the contract shall be subject to appropriation of funds by the Board of County Commissioners.
- b. The initiating County department(s) shall issue release (purchase) orders against the term contract on an "as needed" basis.
- c. The contract may be canceled by the Contractor, for good cause, upon ninety (90) days prior written notice.
- d. The County retains the right to terminate the contract, with or without good cause, upon thirty (30) days prior written notice.
- e. In the event of termination by either party as provided herein, the Contractor shall be paid for services performed through the date of termination.

METHOD OF PAYMENT

Awarded Bidder will be paid on a monthly basis in arrears. Invoices must contain the Purchase or Blanket Order number. Authorization code and copies of applicable Service Request Job Log Forms. Awarded Bidder to submit monthly invoice to the address indicated on the Purchase or Blanket Order under which the service was requested

PROTECTION OF PROPERTY

The awarded Bidder shall at all times guard against damage or loss to the property of the County or of other contractors or property owners and shall be held responsible for replacing or repairing any such loss or damage. The County may withhold payment or make such deductions as deemed necessary to insure reimbursement or replacement for loss or damage to property through negligence of the awarded Bidder or his agents.

EQUIPMENT

All equipment shall be maintained in an efficient and safe operating condition while performing work under this contract. All trucks and trailers shall have appropriate signage denoting company name affixed at all times. Equipment shall have proper safety devices maintained in working order at all times while in use. If equipment does not contain proper safety devices and/or is being operated in an unsafe manner, the County shall direct the Contractor to remove such equipment and/or operator until the deficiency is corrected to the satisfaction of the County. The Contractor shall be responsible and liable for injury to persons and property caused by the operation of the equipment.

CERTIFICATION

Bidder must hold a current Occupational License from Seminole County, or other Florida County. P.A.L. (Pesticide Applicator License) is also required with a stipulation that it will remain valid throughout the term of contract. Certificates and licenses must be in the name of the Bidder shown on the Bid Response Form.

COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH

In compliance with Chapter 442, Florida Statutes, any item delivered from a contract resulting from this bid must be accompanied by a Material Safety Data Sheet (MSDS). The MSDS must include the following information:

- a. The chemical name and the common name of the toxic substance.
- b. The hazards or other risks in the use of the toxic substance, including:
 1. The potential for fire, explosion, corrosiveness, and reactivity;

2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by exposure to the toxic substance; and
 3. The primary routes of entry and symptoms of overexposure.
- c. The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of overexposure.
 - d. The emergency procedure for spills, fire, disposal, and first aid.
 - e. A description in lay terms of the known specific potential health risks posed by the toxic substance intended to alert any person reading this information.
 - f. The year and month, if available, that the information was compiled and the name, address, and emergency telephone number of the manufacturer responsible for preparing the information.

BID SUBMITTAL

Bidder shall submit three (3) complete bid packages (one original and two copies) including complete sets of all material application sheets and Material Safety Data Sheets (MSDS) with each bid submittal.

INSURANCE

The minimum amounts of insurance (inclusive of any amounts provided by an Umbrella or Excess policy) shall be as follows:

Workers' Compensation/Employers' Liability

Part One: There shall be no maximum limit (other than as limited by the applicable statute) for liability imposed by the Florida Workers' Compensation Act, the Longshoremen's and Harbor Workers' Compensation act or any other coverage required by the contract documents which are customarily insured under Part One of the standard Workers' Compensation Policy.

Part Two: The minimum amount of coverage required by the contract documents which are customarily insured under Part Two of the standard Workers' Compensation Policy shall be:

\$100,000	(Each Accident)
\$500,000	(Disease - Policy Limit)

\$100,000 (Disease - Each Employee)

Commercial General Liability: The limits are to be applicable only to work performed under this contract and shall be those that would be provided with the attachment of the Amendment of Limits of Insurance (Designated Project or Premises) endorsement (ISO Form CG 2501) to a Commercial General Liability Policy with the following minimum limits:

General Aggregate	Three Times the Each Occurrence Limit
Products/Completed Operations Aggregate	\$900,000
Personal and Advertising Injury	\$300,000
Each Occurrence	\$300,000
Fire Damage (any one fire)	\$300,000
Medical Expense (any one person)	\$300,000

Business Auto Policy

Each Occurrence Bodily Injury and Property	
Damage Liability Combined	\$300,000
Annual Aggregate (if applicable)	Three Times the Each Occurrence Limit

Owners Protective Liability Coverage: The minimum OCP Policy limits per occurrence and, if subject to an aggregate, annual aggregate to be provided by the awarded Bidder shall be the same as the amounts shown above as the minimum occurrence and policy aggregate limits respectively required for the Commercial General Liability Coverage. The limits afforded by the OCP Policy and any excess policies shall apply only to the Owner and the Owner's officials, officers, agents and employees and only to claims arising out of or in connection with the work under this contract.

Requirement for OCP Policy shall be waived provided the awarded Bidder shall require that its insurer name the Owner (and if required, the Engineer) as Additional Insured on the awarded Bidder's Commercial General Liability (inclusive of amounts provided by an Umbrella or Excess policy).

INDEMNIFICATION

Awarded Bidder agrees to protect, defend, indemnify, and hold harmless the County, its employees and representatives, from any and all claims and liabilities including all attorney's fees and court costs, including appeals, for which the County, its employees and representatives, can or may be held liable as a result of injury (including death) to persons or damage to property occurring by reason of any acts or omissions of the awarded Bidder, its employees, or agents, arising out of or connected with this Agreement. The awarded Bidder shall not be required to indemnify the County or its agents, employees, or representatives, when an occurrence results solely from the wrongful acts or omissions of the County, or its agents, employees or representatives.

Requirements/ Scope Of Services

SECTION I. GENERAL REQUIREMENTS

A. ADMINISTRATIVE CONDITIONS

1. All work in this contract will be under the supervision of the County's Representative, Jimmie Brown, Lead Inspector, Department of Public Works, 177 Bush Loop, Sanford, Florida 32773 Phone (407) 665-5620.

This is a supplemental contract designed to aid and enhance the services provided to the citizens of Seminole County by the Seminole County Department of Public Works. There are NO GUARANTEES as to the quantities or frequencies of items included in this contract. It is anticipated that substantial additional landscape areas will be added to this contract on an annual basis as new construction maintenance guarantees expire.

2. The Contractor will coordinate with the County's Representative, who will perform inspections for the County and verify that the work has been completed as scheduled and handle problems that may arise.
3. The Contractor will verify quality control for this project with the County's Representative.
4. The Maintenance of Traffic shall conform to the Florida Department of Transportation's (FDOT) most current editions of "Roadway and Traffic Design Standards" for Design, Construction, Maintained Systems and the "Manual on Uniform Traffic Control Devices for Streets and Highways." These documents can be ordered from the State of Florida Department of Transportation, Map and Publications Department, 605 Suwannee Street, Tallahassee, Florida, 32399-0450, Phone: (904) 488-9220. A proposed traffic control plan shall be submitted to County Representative for approval prior to starting work. Lane closures will be limited to non-peak traffic volume hours as approved by the County Traffic Engineer.
5. The use of public roads and streets by the Contractor shall provide a minimum inconvenience to the public and traffic.
6. A mandatory Pre-Work Conference shall be conducted by the County's Representative to ensure understanding and cooperation of all parties.

7. All work will be ordered by the County's Representative in the form of Work Orders. No work will begin until a Work Order has been issued to the Contractor. If Work Orders are issued by the County's Representative verbally, they will be followed by a written Work Order. All work ordered must be completed within ten (10) working days from the start date on the Work Order unless the work in question is deemed urgent. Urgent work shall be completed within two (2) working days from time of verbal or written Work Order notification.
8. The Contractor shall comply with the most current edition of the FDOT Accident Prevention Procedures Manual pertaining to employee safety and applicable OSHA standards. The Contractor will be responsible for obtaining a copy of this manual by contacting FDOT Maps and Publications Department in Tallahassee.
9. The County's Representative will be entitled at all times to be advised, upon request, as to the status of work being completed by the Contractor and of the details thereof. Coordination shall be maintained by the Contractor with the County's Representative. Either party may request and be granted a conference. The Contractor shall submit daily reports to the County's Representative containing the location of work in progress and the percentage of work completed to date.
10. The Contractor shall submit, upon request, a work schedule prior to beginning any work in this contract. The work schedule shall contain the route to be followed and the location of work on each day. The Contractor shall notify the County's Representative prior to any schedule variance. The notification shall occur before 8:00 a.m. on the day of the schedule variance. The Contractor is also required to submit a quarterly (3-Month) schedule fourteen (14) days prior to each quarter. This should be coordinated with the County's Representative.
11. Due to extreme traffic or weather conditions, the Contractor may be required to remove his operation from the right-of-way at the discretion of the County's Representative. If the Contractor is required to remove his operation due to extreme traffic or weather conditions, less than five (5) hours worked will constitute one-half (1/2) working day and five (5) or more hours worked will constitute one (1) working day.
12. The Contractor will supervise and direct the work efficiently with skill and attention. The Contractor will be responsible to assure that the finished work complies accurately with the specifications.

13. The Contractor will provide competent, suitable qualified personnel to perform the work as required by the specifications. He will at all times maintain good discipline and order at the site. The Contractor shall provide a list of all foremen and supervisors who will perform the work. The list shall also contain twenty-four (24) hour emergency telephone numbers.
14. The Contractor will designate a competent English speaking and understanding contract representative at the site who shall not be replaced without written notice to the County's Representative and shall have the authority to act on behalf of the Contractor. All communications given to the contract representative shall be binding as if given to the Contractor.
15. The Contractor will submit a copy of his or her valid Pesticide Applicator's License with the appropriate categories to the County. This License shall remain valid throughout the entire contract period. Material Safety Data Sheets (M.S.D.S.) will be provided for every chemical prior to its use.

B. SERVICE CONDITIONS

1. The Contractor shall furnish all labor, materials, equipment, supervision, permits, coordination, tools, transportation, supplies, manpower and pay disposal fees, to complete the landscape maintenance work specified in the contract in a timely and quality manner.
2. Quantity and Frequency of Work

The work specified in this contract represents the services to be accomplished on an annual basis. For the purposes of this contract, a landscape area is defined as a designated area inclusive of mulch, planting soil, singular or multiple plantings of trees, palms, shrubs and ground cover and irrigation system. The landscaped areas and limits of work are all non-paved sections of right-of-way and County property. Areas have been inventoried and calculated as to quantities. Areas designated as "Exclusions" are not calculated in the Contract Estimate of Quantities. Any discrepancies or disagreements concerning quantities and limits of work shall be mutually resolved prior to beginning work in any area in question.

The cost of all work and materials not specifically identified by a pay item shall be considered incidental to the cost all contract pay items.

During the first cycle of all bid items, the Contractor shall be responsible for bringing all areas specified in the contract up to the quality standards required by the County. All costs of reclaiming these areas shall be included in the unit prices bid. No additional compensation will be given to the Contractor for bringing the specified areas up to the required quality level. All work locations shall be considered provided by the County in an "as is" condition.

The County's Representative will determine when to begin each cycle. The total number and timing of the cycles will depend upon the growth conditions during the season. The contractor shall not begin any cycle until authorized by the County's Representative.

3. Equipment

All equipment used in the performance of the contract on County property shall be properly maintained in order to protect the operator and the public. The Contractor's equipment shall prominently display the name of the Contractor's company. All equipment used by the Contractor is subject to inspection by the County's Representative. Any equipment deemed inoperable, unsafe, or improper for site conditions or desired use shall be removed from the premises.

The Contractor shall furnish equipment of a type, quality and quantity to perform the work satisfactorily within the time specified herein. The Contractor shall provide a list of equipment to be used in the performance of this contract.

4. Completion of Work

The Contractor shall complete the routine work ordered within ten (10) working days from the start date of the verbal or written Work Order. Urgent work shall be completed within two (2) working days of start date notification by verbal or written Work Order.

During the periods of work, the Contractor shall consult with the County's Representative in a timely manner for inspection and approval of work quality being accomplished. In the event of unsatisfactory work or materials the Contractor shall repeat the work and replace materials without additional compensation, within the specified time.

SECTION II. MAINTENANCE OF LANDSCAPE AREA

A. INTENT

Maintenance of landscape areas constitutes professionally sustaining all landscape areas within the designated limits to the highest quality standards within the industry. Plant maintenance shall include, but not be limited to, watering, pruning, weeding, fertilizing, chemical applications, cultivating, mulching, straightening, replacement of damaged or diseased plant materials and all other care required for property health and vigorous growth of the plants. Prior to removal of plant material, the Contractor shall obtain County authorization.

The Contractor shall inspect all landscape areas within the designated boundaries during each cycle. The Contractor shall identify maintenance problems and recommend remedial action. A remedial action plan will be provided to include, but not be limited to, estimated quantities for mulch, tree maintenance, fertilizer, litter removal, edging, plant replacement, watering, general landscape maintenance, irrigation system maintenance, etc., and a schedule for completion. The above information will be filled out in the Pre-Site Visit Check List and Maintenance Work Order Sheet (see forms in Attachments)

The written results of the inspections along with the reporting sheet and M.S.D.S. sheets for any proposed chemical shall be sent to the County's Representative within twenty-four (24) hours of the completion of each cycle.

B. METHOD OF OPERATIONS

All mulched areas shall have all grass, weeds, litter, terminally diseased or damaged plants and undesirable growth removed to maintain the landscape in a healthy attractive condition. County approved plant replacements shall be furnished and installed by the Contractor as needed during each maintenance cycle.

The Contractor shall prune all plants from the edges of roads, driveways, fences and sidewalks to insure the safety of citizens and the protection of the property. Prune all plants to encourage a healthy natural growth pattern and to develop the eventual and future branching structure for each specific variety. All pruning shall be done according to I.S.A. Standards. Pruning shall provide a neat and well-manicured appearance.

C. QUALITY

Landscape areas shall be maintained in a professional manner to provide a groomed, attractive and healthy appearance in accordance with these specifications. Shrubs, groundcovers, sod, trees and materials damaged by the Contractor and work deemed unsatisfactory by the County shall be replaced or redone by the Contractor at his/her expense. Replacement plants shall conform to the type, species/variety, grade, standard and size to match existing plants. Replacement material, which is smaller or otherwise different from the original plants, must have prior County approval.

D. QUANTITY AND FREQUENCY OF MAINTENANCE

The County's Representative will determine when to begin each landscape area maintenance cycle based on inspections conducted by the County's Representative. The total number and timing of the cycles will depend upon the growth conditions of the landscape area during the season. However, for bidding purposes, seventeen (17) cycles have been estimated for maintenance of landscape areas. The Contractor will be compensated for work and materials in this section, unless otherwise noted, at the unit price bid per square foot for the pay item Maintenance of Landscape Areas times the actual number of square feet completed during a cycle. **There are two (2)-cycle months from June to October, and one (1)-cycle month from November to May, for routine maintenance.**

E. PEST CONTROL/WEEDING

Contractor shall practice Integrated Pest Management (I.P.M.) to control insects, disease and weeds on and around perennials, ground covers, shrubs, vines and trees. This will include bi-weekly monitoring and spot treatment as necessary using least toxic methods. Weeds and grass in beds or mulched areas will be removed each ordered cycle by hand or selectively by chemical, provided that chemicals will not result in damage to plants or leave an unsightly appearance. Upon client approval, herbicides may be employed for heavy infestations, or to treat parasitic weeds in palm roots. Weeds along and in the pavement edge of curb lines of the hard-scaped medians and medians containing landscape materials, is to be addressed each service cycle and try to discourage the rapid reoccurring growth within the expansion joints areas. The cost of work and materials for weeding shall be included in the unit price bid for Maintenance of Landscaped Areas. For bidding purposes twenty-four cycles have been estimated. **All bags are to be removed that day of service, no exceptions.**

F. LITTER REMOVAL

All litter and debris are to be removed by hand from County right-of-way or property before and upon completion of each cycle to allow for a neat and clean appearance before and after completion. The cost of work and materials for litter

removal and disposal shall be included in the unit price bid for Maintenance of Landscape Areas. For bidding purposes twenty-four (24) cycles have been estimated.

G. APPLICATION OF INSECTICIDES AND FUNGICIDES

Planting beds attacked by, or showing signs of disease or pests shall be properly remedied immediately and cared for by the Contractor. The Contractor shall notify the County's Representative prior to the application of insecticides and fungicides.

The Contractor shall abide by the manufacturer's specifications for all chemicals or chemical compounds used and provide an M.S.D.S. for each chemical prior to application. The Contractor shall abide by all rules, laws, ordinances and statutes of the Federal, State and County, as well as any other governmental agencies having jurisdiction pertaining to the handling, storage and application of pesticides or fungicides. The cost of all work and materials for the application of insecticides and fungicides shall be included in the unit price bid for Maintenance of Landscape Areas.

Disease and other pests shall be identified and reported to the County with recommendation of remedial treatment within twenty-four (24) hours of the site visit. Upon County approval, the Contractor shall be responsible for carrying out the remediation plan including, but not limited to, application of insecticides and fungicides.

H. FERTILIZATION

All fertilization shall be performed in a manner that promotes healthy, vigorous sustainable growth instructions. The soil pH of landscape areas shall be appropriately adjusted with elemental sulfur at a rate of seven (7) pounds per one-thousand (1,000) square feet every ninety (90) days to maintain a healthy and vigorous growing condition. Fertilizer shall be a granular 12-4-8 analysis containing micro-nutrients with a minimum of fifty percent (50%) slow release nitrogen applied at the rate of eight (8) pounds per one-thousand square feet based on a 50 pound bag. For bidding purposes, three (3) cycles during the months of February/March, May/June and September/October have been estimated for fertilization of landscape areas. The Contractor shall be compensated for the number of square feet completed each cycle. The cost of all work and materials for fertilization shall be included in the unit price bid per square foot for Fertilizing Landscape Areas.

I. HERBICIDING

Herbicide treatment constitutes pre-emergent and post-emergent treatment of undesirable grass, weeds, vegetation and plant material growing in, along and around landscape areas with an approved herbicide to maintain these areas in an attractive and manicured condition. Herbicide use shall be limited to specific sites or undesirable growth in the landscape areas identified by the Contractor and authorized by the County's Representative.

The non selective post-emergent herbicides used shall be Round Up or County approved equivalent applied in conformance with the manufacturer's instructions. Herbicide shall contain green spray (temporary) indicator to define areas treated. The application of pre-emergent herbicide should be considered and incorporated into the schedule. The cost of all work and materials for herbicide treatment shall be in the unit price bid for Maintenance of Landscape Areas.

1. Quantity and Frequency of Herbicide Treatment

The total number and timing of the cycles will depend upon the type of herbicide used and growth conditions during the season.

2. Limitation of Operations

Herbicide treatment will be on an as-needed basis during the cycles for Maintenance of Landscape Areas. The Contractor shall abide by all rules, laws, ordinances and statutes of the State and County having jurisdiction pertaining to the handling, storage and application of herbicides. Plants, grass and trees damaged by the improper use of herbicides will be replaced by the Contractor at this/her expense. Replacements will be of the same size and type and originally planted quality of those damaged.

3. Quality

If at any time the herbicide treatment is not in accordance with the specifications, the services will be performed again at no additional cost to the County.

J. MULCHING

Mulching constitutes providing and placing medium rustic pine bark mulch in designated areas at quantities recommended by the Contractor and approved by the County.

1. Quantity and Frequency of Mulching

New mulch shall be replenished in deficient areas in a settled manner to attain a uniform depth of (3) inches once a year during the winter months (Nov. – Feb). All mulch shall be pine bark mulch unless otherwise specified by the work order. All curb; roadway and bed line edges will be trenched to help contain the applied mulch. However, for bidding purposes one (1) cycle has been estimated for mulching work. The County's Representative will determine when and how much mulching is required based on the inspections and recommendations of the Contractor. The Contractor will be compensated for all work and materials in this section in the unit bid price per cubic yard for Mulching Landscaped areas.

2. Method of Operations

Mulch shall be supplied by the Contractor, delivered to the site and applied in the areas specified. Mulch shall be placed by hand to a settled but not tightly compacted consistency.

3. Quality

Mulch shall be free of insects, disease, debris, trash, seeds, etc., and placed in such a manner as to provide a neatly groomed settled appearance in accordance with industry standards. If at any time the mulch is disturbed, subdivided or damaged by the Contractor, the mulch will be reapplied at no additional cost to the County.

K. MAINTENANCE OF TREES AND PALMS

Tree maintenance constitutes professionally maintaining newly planted tree and palm landscape areas as well as maintaining established older tree and palm landscape areas. Tree and palm maintenance will include pruning to the highest quality I.S.A. Standards to allow for proper clearances as well as for the integrity of the tree. It shall also include the application of insecticides and fungicides, fertilizing, mulch aeration mulching, watering and litter and debris removal around trees not in planting beds.

1. Quantity and Frequency of Tree and Palm Maintenance

The County's Representative will determine when to begin each tree maintenance cycle. The total number and timing of the cycles will depend upon the growth conditions of the trees during the season. However, for bidding purposes, seventeen (17) cycles have been estimated for reporting and tree maintenance inspection.

2. Application of Insecticides and Fungicides

The Contractor shall inspect all trees within the designated landscape areas during each cycle. The results of these inspections along with a report on the types of insecticides and fungicides required, if any, will be conveyed (written or verbally), to the County's Representative within twenty-four (24) hours of the completion of each inspection. The cost of all work and materials for the provision and application of insecticides and fungicides shall be included in the unit price bid for Maintenance of Landscape Areas. Insecticide and fungicide application must be approved by the County's Representative prior to the applications taking place.

The Contractor shall abide by the manufacturer's specifications for all chemicals or chemical compounds used. The Contractor shall abide by all rules, laws, ordinances and statutes of the Federal, State and County as well as any other governmental agencies having jurisdiction pertaining to the handling, storage and application of pesticides and fungicides.

3. Fertilization of Trees and Palms

All trees and palms shall be fertilized three (3) times a year. Scheduling shall be concurrent with the schedule for bed areas – February/March, May/June, and September/October. Trees shall be fertilized with 12-4-8 fifty (50) percent slow released fertilizer with micro-nutrients at the rate of eight (8) pounds per one-thousand (1,000) square feet based on a 50 pound bag and shall be applied on the mulch surface and around the unmulched surface not to exceed one-half (1/2) to two (2) times the canopy diameter.

4. Pruning

Shrubs will be pruned as needed to ensure proper informal shape, fullness, sight distance and bloom. Tree and palm pruning will be done **once per year**. **Palms**, remove dead or deficient fronds; **Trees** branches will be pruned just outside of the branch collar; Pruning paint will not be applied, sucker growth will be removed by hand from the base of the trees, and no herbicide is to be used for this purpose. **Crape Myrtle's** are to be bud pruned only **no** Hat Racking or Buck Horn pruning. **All pruned debris is to be removed that day, no exceptions.**

L. LITTER REMOVAL

All litter and debris are to be removed daily as work progresses towards completion of a Landscape Area Maintenance cycle. Litter and debris removal includes the pickup, removal and disposal of any not permitted item such as wood, signs, tires, cans, bags of trash, newspapers, magazines, food containers, boxes, sheets of paper, etc., which will result in an objectionable appearance. The cost of all work and materials for litter removal shall be included in the unit price bid for Landscape Area Maintenance.

SECTION III. REPLACEMENT PLANT MATERIAL

A. INTENT

Plants that have died, been destroyed or damaged will require replacement from time to time. Since most of these plantings were installed as part of the original landscape project, the original specifications developed by the County shall be used for replacements with adjustments as necessary to match the size, type and quality of surrounding bed plantings.

B. "PLANT LIST" – see Plant List Sheet in the Bid Response Forms. Please include the total amount where indicated in the Pay Item Bid Response Form.

C. QUANTITY AND FREQUENCY OF REPLACEMENT

The County's Representative will determine when plants are to be replaced based on the inspections and recommendations of the Contractor. The Contractor will be compensated for all work and materials in this section at the unit "Plant List" bid price per each under the pay item of Replacement Plant Material.

D. PLANTS

Plants shall conform to the names given in "Standardized Plant Names", 1942 Editions, prepared by the American Joint Committee on Horticultural Nomenclature or by the Bureau of Plant Industry, State of Florida.

Names of varieties not included therein shall conform generally with names accepted in the nursery trade.

Substitutions will be permitted only upon submission of proof that any specified plant is not obtainable or suitable for the location as specified and upon written authorization of the County.

All shrub and groundcover material shall be containerized. Collected materials will not be acceptable. Tree and palms shall be grown in containers or may be field grown, no grow bag materials will be accepted.

E. GUARANTEE PERIOD

All replacement plants shall maintain "Florida Fancy Quality" and be guaranteed for a period of twelve (12) months beginning on the same date as the planting is accomplished, and shall be alive and in satisfactory growth and health for each specific kind of plant at the end of the guarantee period. The Contractor shall provide and implement a County approved detailed irrigation plan for replacement plants. The Contractor shall provide an "As-Built" drawing accurately showing the location and type of replaced plant material.

At any time during the guarantee period the Contractor will be required to replace any tree or plant if:

1. The plant is dead, diseased or obviously dying.
2. The plant is lacking in health and vigor to a point where it falls below standard as described in the specifications.
3. The County's Representative determines that a plant will not recover and be within grade by the end of the guarantee period.
4. Any plant that is questionable at or near the end of the guarantee period.

Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor. With a twelve (12) month guarantee period required from the date of planting. Only if the Contractor is able to demonstrate to the satisfaction of the County that plant materials died for reasons which were not caused by the fault of the Contractor, its officers, employees, subcontractors or agents, will replacement costs be negotiated between the County and the Contractor.

All replacements shall be plants of the same kind as originally planted. They shall be furnished, maintained and planted as herein specified. The cost thereof shall be the responsibility of the Contractor.

F. QUALITY CONTROL

Plants shall have and maintain a habit of growth that is normal for the species and shall be sound, healthy, vigorous and free from insect pests, plant diseases and injuries. Trees shall be heavily branched. All trees shall have a dominant leader and no crossing branches. Plant material shall be Florida "Fancy" grade or better as outlined under "Grades and Standards for Nursery Plants", established by the Florida Department of Agriculture (State Plant Board of Florida).

The County shall have the right, at any stage of the operations to reject any and all work and materials, which in their opinion, do not meet the requirements of these specifications or aesthetically do not comply with design intent. Trees that are scarred or damaged during delivery

All plant material will be container grown unless otherwise specified in the "Plant List" or by the County. Collected materials will not be acceptable.

Representative samples of proposed plant materials are required to be inspected and approved by the County prior to any delivery to the project site. Such samples shall be viewed at the respective nurseries prior to delivery to the project site.

G. CERTIFICATE OF INSPECTION

The authorized State Agencies, prior to delivery to the project site shall properly inspect at the nursery or at the growing site all shipments of plant material.

All required inspection certificates shall accompany the bill of lading or invoices. Required transportation documents are to be submitted with invoices as a back up.

H. MEASUREMENTS

The minimum acceptable size of all plants measured after pruning, with branches in the normal positions, shall conform to the measurements as shown in the County's Retrofit Landscape Standards: and "The Technical Specifications for Roadway Landscaping" and conform to the grades and standards established by the Florida Department of Agriculture as specified in the Plant List. (Not extreme tip to tip, but main body of plant). The caliper of tree trunks is to be measured twelve inches above the ground level. Plant sizes shall be adjusted to match adjacent plant materials as directed by the County.

Substantial deviations from these measurements must be approved by the County.

A copy of the County's "Retrofit Landscape Standards" and "Technical Specifications for Roadway Landscaping" will be provided to the Contractor and shall be used for guidance in replacing all plants.

SECTION IV. IRRIGATION SYSTEM MAINTENANCE & OPERATION

A. INTENT

Irrigation system maintenance and operation encompasses the inspection, operation and repair of the irrigation system(s) specified.

B. QUANTITY AND FREQUENCY

The County's Representative will determine when to begin irrigation systems inspection, operation and repair cycles. The timing of the cycles will depend upon the growth conditions during the season. For bidding purposes, twelve (12) monthly cycles have been estimated for irrigation systems inspections, operation and repair. The Contractor will be compensated at the unit price bid per system for the pay item of Irrigation System Maintenance times the actual number of cycles completed. The Contractor will also be compensated separately at the time of the repair for the cost of approved replacement equipment for irrigation system(s) plus County pre-approved hourly cost for installation. At the County's discretion, competitive pricing quotes for replacement equipment and installation may be requested and utilized to maintain quality and cost effectiveness.

C. METHOD OF OPERATIONS

The Contractor shall be responsible for inspecting, operating and maintaining the irrigation system(s) specified to insure the proper water is supplied and that the irrigation system(s) meet the manufacturer's specifications. The Contractor shall program the irrigation system to operate in accordance with the County approved schedule. The Contractor shall submit an irrigation schedule to the County's Representative for approval prior to implementation based on plant requirements and environmental factors.

All irrigation systems shall be programmed for application between 4:00 a.m. and 7:30 a.m. and shall be monitored to ensure that the functions of the site are not disrupting or endangering traffic or pedestrian operation. Application shall be accomplished to ensure plants are watered sufficiently to allow for optimum growth conditions. The Contractor shall be responsible for irrigation zone timing and shall alter irrigation programs in response to weather conditions to ensure that proper water relationships are maintained. The Contractor shall verify proper irrigation coverage and water relationships during each cycle.

The Contractor shall inspect the irrigation system to ensure all components are functioning properly. The results of each inspection to include problem identification, remedial action recommendations and work schedule and quantity estimate shall be submitted to the County's Representative in writing, within twenty-four (24) hours from the completion of each inspection. Urgent repair

work shall be identified by the Contractor and verbally authorized by the County's Representative upon notification by the Contractor.

The Contractor shall be responsible for the prompt repair and replacement of all broken, damage or missing sprinkler heads and irrigation lines. The Contractor shall be responsible for repair to and/or replacement of all timers, valves, pumps, water meters, back-flow preventors, lines, heads, electric valve lines, parts jammed due to dirt or debris in the system and controllers. The Contractor shall be responsible for promptly repairing leaks due to failure of joints, lines and/or broken parts. Replaced parts and/or equipment shall upon request be delivered to the County's designated representative for inspection within two (2) working days after replacement.

D. QUALITY

If at any time the irrigation systems are not properly inspected, operated and/or repaired in accordance with the specifications, the services shall be performed again at no additional cost to the County.

SECTION V. SUPPLEMENTAL WATERING

A. INTENT

Provide infrequent but necessary watering of landscape areas within five (5) working days notice to maintain and promote the normal growth of plants during extended periods of below normal rainfall.

B. QUANTITY AND FREQUENCY

The County's Representative will determine the quantity, application rate and location for supplemental watering based upon the Contractor's recommendations, climatic data, site specific data and personal inspection. The total amount of water and application rate will vary. However, for bidding purposes, 50,000 gallons of water per cycle and four (4) cycles have been estimated for annual application. Compensation for all work and materials in this section will be at the price bid (per 1,000 gallons) for Supplemental Watering applied to designated areas at the approved application rate.

C. METHOD OF OPERATION

The Contractor shall provide and apply irrigation water to landscape areas designated by the County's Representative and at County approved application rates that provide for normal growth. The water shall be from a County approved source and free of elements toxic to plant and animal life. Water shall be uniformly applied in a manner that does not erode or otherwise damage the

landscape area, plants or surrounding area or endanger or interfere with pedestrian or vehicular traffic. All damage caused by the Contractor's operation will be repaired by the Contractor at no expense to the County. The use of watering trucks or truck and trailer/tanker combinations shall be in accordance with the "Motor Vehicle Laws of the State of Florida" and the "M.U.T.C.D". In addition, the watering vehicle will be accompanied by an automated programmable message arrow-board either prominently attached to the rear portion of the watering vehicle or immediately following the watering vehicle. The Contractor shall provide and utilize a County approved maintenance of traffic plan for supplemental watering operations.

D. QUALITY

If at any time the Contractor's work is deemed by the County's Representative to be unsatisfactory, the services will be re-performed at no expense to the County.

Bid Response Forms

A. PAY ITEM BID RESPONSE FORM

Item No.	Description	Estimated Quantity Per Cycle	Estimated Cycles Per Year	Total Estimated Quantity per Year	Unit Bid Price	Estimated Total Bid Price
001	Maintenance of Landscape Areas	656,465 Square Feet	17	11,159,905	_____ Per Sq Ft.	
002	Fertilizing Landscape Areas	656,465 Square Feet	3	1,969,395	_____ Per Sq Ft	
003	Mulching Landscape Areas	1,000 Cubic Yards	1	1,000	_____ Per Cu Yd	
004	Replacement Plant Material	N/A	Lot		Submit "Plant List" and fill out total price in the Estimated Total Bid Price column	
005	Irrigation System Maintenance	3 Systems	12	36	_____ Per System	
006	Supplemental Watering	540,000 Gallons	As Needed		_____ Per 1,000 Gallons	

TOTAL BID PRICE \$

Was visual inspection of Roadway Landscape Areas made prior to Bidding? Yes _____ No _____

Have you submitted a photocopy of your valid Pesticide Applicator License (PAL)? Yes _____ No _____

B. Plant List - (Unit price includes furnishing, installation, removal of damaged material and a 12 month guarantee period.)

This sheet will be incorporated in the bid line item. It is hard to determine the approximate quantities that will be used each year , therefore the replacements are estimated.

Item #	Plant Description----- Trees		Unit	Unit Price Est. Per yr 0 to 300
1	East Palatka Holly	65 gal.6-12' Ht. 4'-5' SPD., 3" Cal., 6' Clear Trunk, Standard	EACH	
2	Lagerstroemic indica Natchez Natchez Crape Myrtle	65 gal., 6-12' height, 7'- 8' SPD., 3" Cal., 6' Clear Trunk, Standard	EACH	
2a	Lagerstroemic indica Natchez Natchez Crape Myrtle	100 gal., 14-16' height, 6" Cal., 6' Clear Trunk, Standard	EACH	
3	Lagerstroemic indica Tuscorora Tuscorora Crape Myrtle	65 gal.10'- 12' height, 7'- 8' SPD. 3" Cal., 6' Clear Trunk, Standard	EACH	
3a	Lagerstroemic indica Tuscorora Tuscorora Crape Myrtle	100 gal.12'- 14' height, 5" Cal., 6' Clear Trunk, Standard	EACH	
4	Magnolia grandiflora Southern Magnolia	65 gal.,6-12' Ht, 7'- 8' SPD., 3" Cal., 6' Clear Trunk, Standard ML-TR	EACH	
5	Quercus laurifolia Laural Oak	65 gal. 12'- 14' height, 7'- 8' SPD. 4" Cal., 6' Clear Trunk.	EACH	
6	Ligustrum lucidum (Glossy Privet)	65 gal. 12'- 14' height, 7'- 8' SPD. 3" Cal., 6' Clear Trunk. ML-TR	EACH	
7	Quercus shumardii Shurnard Oak	65 gal. 12'- 14' height, 7'- 8' SPD. 4" Cal., 6' Clear Trunk.	EACH	
8	Quercus virginiana Live Oak	65 gal. 12'- 14' height, 7'- 8' SPD. 3" Cal., 6' Clear Trunk.	EACH	
9	Taxodium distichum Bald Cypress	65 gal. 12'- 14' height, 7'- 8' SPD. 4" Cal., 6' Clear Trunk.	EACH	
10	Ulmus parvifolia "Drake" Drake Elm	65 gal. 12'- 14' height, 7'- 8' SPD. 4" Cal., 6' Clear Trunk.	EACH	
11	Ulmus alata Winged Elm	65 gal. 12'- 14' height, 7'- 8' SPD. 4" Cal., 6' Clear Trunk.	EACH	

Item	Plant Description ----- Shrubs		Unit	Unit Price Est. Per yr 0 to 300
12	Ilex cornuta "Rotunda" Rotunda Holly	3 gal. 18"x18", full /36" O.C.	EACH	
13	Ilex vomitoria "Schellings Dwarf"	3 gal. 18"x18", full /36" O.C.	EACH	
14	Iris Virginica Blue Flag Iris	1 gal. 12"- 18", full 24" O.C.	EACH	
15	Muhlenbergia capillaris Hairgrass	3 gal. 12"- 18", full 24" O.C.	EACH	
16	Raphiolepis indica Indian Hawthorn	3 gal. 18"x18", full /36" O.C.	EACH	
17	Juniperus conferta 'Blue Pacific' Blue Pacific Juniper	3 gal. 15"x18", full /36" O.C.	EACH	
18	Lantana camara Lantana	1 gal. 12" SPD, full 36" O.C.	EACH	
19	Lorope muscari 'Evergreen Gaint' Lilly Turf	1 gal. 7-9 bulbs full 36" O.C.	EACH	
20	Nerium Oleander Oleander	7 gal., 5' - 8' ht. Red Full 6' on center	EACH	
21	Zamia Pumila coontie	3 gal. 15"x15", full 3' Center	EACH	
Plant Description / Palms				
22	Sabal Palmetto Cabbage Palm	10' - 20' Trunk, Booted, Match Trunk Heights	EACH	
23	Washingtonia robusta Washington Palm	10' - 20' Trunk, Booted, Match Trunk Heights	EACH	
Total				\$

Please fill in this amount on Item 005, Page 28

Bidder's Name:	Authorized Signature:
Address:	Printed Name:
City, State, Zip:	Title:
Remittance Address:	Telephone Number: ()
City, State, Zip:	Toll Free Number: (800)

Bids may not be withdrawn for a period of 60 days after bid opening. All items bid must be in compliance with the stated specifications. Any Bidder taking exception shall indicate those exceptions on company letterhead and attach to their bid.

Any questions regarding this bid should be addressed to Gloria M. Garcia, (407) 665-7123, or sent via facsimile to (407) 665-7956

If Bidder is not the successful Bidder as the Prime Supplier, will Bidder be willing to serve as a stand-by (Secondary) supplier under the terms, conditions, and prices as stated herein?

☐ Yes ☐ No

References

CLIENT/CUSTOMER NAME	CONTACT PERSON	TELEPHONE AND FAX NUMBER
		()
		()
		()
		()
		()

Does Bidder have any similar work in progress at time of Bid Opening?

☐ Yes
 ☐ No

If "Yes", explain:

**BANK OR OTHER
FINANCIAL REFERENCES**

BANK NAME AND LOCATION	DATE OPENED	CONTACT PERSON	TELEPHONE AND FAX NUMBER
			()
			()
			()
			()
			()

References who are located in foreign countries are not acceptable

BIDDER INFORMATION

Bidder shall complete either the "Corporate Authority," "Proprietorship," "Partnership Information" or, "Joint Venture Information" portion of the Bidder Information Sheet, whichever part applies, and include with their bid submittal.

Bidder Information

CORPORATE AUTHORITY		
CONTRACTING OFFICER	TITLE	OFFICER'S FULL LEGAL NAME
	President	
	Vice-President	
	Secretary	
	Treasurer	
PROPRIETORSHIP		
Proprietor:		

Indicate with an asterisk (*) in the first column, which officer will sign the resulting contract. If other than the President, include a copy of the corporate resolution which gives express authority for execution of the specific bid and contract documents. Each bidder must assure that the officer information provided is in accord with the bidder's corporate registration supplied to the Secretary of State.

PARTNERSHIP INFORMATION		
Partner: Full	Limited	
Partner: Full	Limited	
Partner: Full	Limited	

If your firm is a partnership, indicate for each partner whether he/she is a full or limited partner by CIRCLING either "full" or "limited". Managing partners with authority to bind the partnership should be identified.

JOINT VENTURE INFORMATION			
Firm #1		Firm #2	
Firm Name:	_____	Firm Name:	_____
Address:	_____	Address:	_____
City/State/Zip:	_____	City/State/Zip:	_____
Telephone:	_____	Telephone:	_____
Fax Number:	_____	Fax Number:	_____
Toll Free Phone:	_____	Toll Free Phone:	_____
President:	_____	President:	_____
Other Corporate Authority (signatory)	_____	Other Corporate Authority (signatory)	_____
Firm #3		Firm #4	
Firm Name:	_____	Firm Name:	_____
Address:	_____	Address:	_____
City/State/Zip:	_____	City/State/Zip:	_____
Telephone:	_____	Telephone:	_____
Fax Number:	_____	Fax Number:	_____
Toll Free Phone:	_____	Toll Free Phone:	_____
President:	_____	President:	_____
Other Corporate Authority (signatory)	_____	Other Corporate Authority (signatory)	_____

This Form Must Be Completed and Returned with your Submittal, if applicable

Equipment List

The following equipment shall be utilized to complete the Scope of Work for Annual Bid No. 3035 (include type and quantity of mowers, edgers, etc.):

Quantity	Item Description	Make	Model	Year of Manufacture	Condition

Indicate by an asterisk (*) equipment Bidder intends to purchase in order to perform the work, if awarded.

Manpower List

The following employees (non-clerical and non-management) are available to perform the work (additionally, note how many employees Bidder intends to hire to accomplish the work, if awarded):

Name	Title

Number of employees Bidder intends to hire if awarded:

State name of employee responsible for overall supervision of this project (contact person):

_____ (Attach qualifications)

Telephone Number: _____ (during working hours)

Telephone Number: _____ (after working hours)

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that _____ does:

(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

X

Bidder's Signature

Date

No Bid Statement
Bid No. A/B-3035-01/GG

If your company does not intend to bid on this Procurement, please complete and return this form prior to the date shown for receipt of bids to: Seminole County, Purchasing Division, 1101 E. 1st Street, Room 3028, Sanford, Florida 32771.

We, the undersigned, have declined to bid on the above referenced Invitation to Bid for the following reason(s) :

- ☐ Specifications are too "restrictive." (please explain below)
- ☐ Unable to meet specifications
- ☐ Specifications were unclear. (please explain below)
- ☐ Insufficient time to respond
- ☐ We do not offer this type of product or equivalent
- ☐ Our production schedule would not permit us to perform
- ☐ Unable to meet bond requirements
- ☐ Other (please explain below)

REMARKS:

Company Name

Telephone

X

Signature

Fax

Title

Typed or Printed Name

Address

City

State

Zip

A/B-3035-01/GG

Attachments

Forms:

- ***Site Locations with Square Footage Information***
- ***Pre-Site Visit Check List***
- ***Maintenance Work Order of Completed Services***
- ***Seminole County Entrance Way Signs***
- ***Certification of Site Inspections prior to Bidding***

Reference Set/Maps:

- ***Landscape Standards for Roadway Median Islands***

	LOCATION	LIMITS	SQ. FT.
1	U.S. Hwy 17-92 S. end		
a	Medians/Islands	Fernwood Blvd. S. to Orange Co. Line	32,000
b	Outside Shoulder Area	SR 436 S. to Orange Co. Line	33,202
c	Entrance sign	At county line Maitland Overpass	1152
2	Rhinehart Rd.		
a	Medians/Islands	CR - 46A to SR 46	68,869
3	Tuskawilla Phase 1		
a	Medians/Islands	SR-426 to Redbug Lk. Rd.	88,000
4	Tuskawilla Phase 2		
a	Medians/Islands	Redbug Lk. Dr. to E. Lk. Dr.	42,500
5	Seminola Blvd.		
a	Medians/Islands	SR- 17/92 to Lake Dr..	120,250
6	Redbug Lk. Rd. Phase 3		
a	Medians/Islands	Tuskawilla Rd. E. to Slavia Rd.	81,000
7	17-92		
a	Medians/Islands	just north of 419 & intersection	8,400
8	Lake Emmia		
a	Medians/Islands	Lake Mary Blvd. & Lake Emma Intersec.	1,700
9	Bush Blvd.		
a	Medians/Islands	Entrance of County Yd	1600
b	Outside Shoulder Area	Around Flag Pole	1300
10	Redbug Lk. Rd. Phase 2		
a	Medians/Islands	Eagle Blvd. To Tuskawilla Rd.	48,658
11	Fernwood		
a	Medians/Islands	17/92 to Oxford Rd.	N/A
		Tree Rings	600
12	Howell Branch Rd.		
a	Medians/Islands	SR-436 to CR-426	69,740
13	Dog Track Rd.		
a	Medians/Islands	US 17/92 to CR-427	5,578
14	CR-427 Phase 2		
a	Medians/Islands	SR-434 to North ST.	18,510
15	Sanford Ave.		
a	Medians/Islands	Lake Mary Blvd. To just past Airport Blvd.	
16	AirPort Blvd.		
a	Medians/Islands	Both sides off Sanford Ave.	1,200
17	Lake Mary Blvd. Phase 2		
a	Medians/Islands	US 17/92 to Power line Easement	26,000
18	CR-427 E. side		
a	Medians/Islands	Green Way to Sanford Ave	950

	LOCATION	LIMITS	SQ. FT.
19	Wekiva Springs Rd.		
a	Medians/Islands	Between SR-434 & Wekiva Spr. Lane	
20	CR-427 Phase 4		
a	Medians/Islands	US 17/92 to Longwood Lk. Mary Rd.	72,828
21	CR-427 Phase 3		
a	Medians/Islands	Longwood Lk. Mary Rd. to SR-434	35,296

Contract # _____.
Company _____.

Seminole County Roadway Landscape Pre-Site Visit Check List

For the Month of _____.

Contractor is to complete a sheet for each site before commencing work each month and discuss with the designated Inspector prior to beginning.

Cycle(s) _____ Date proposed to Start _____.

Location _____.

Routine Scheduled Visit? Yes___ No___ if no Explain _____.

Litter Removal Yes___ No___ (required each visit).

Weed Control Type of work to be performed

___ Mechanical
___ Herbicide _____ Proposed Rate _____.
___ Pre-emergent _____ Proposed Rate _____.
___ Other _____ Proposed Rate _____.

Pruning

___ Sucker Growth Plant _____.
___ Damage Plant _____.
___ Shaping Plant _____.
___ Frond Removal Number of Palms _____.
___ Other _____ Plant _____.

Pest Management

___ Insect _____ Treatment _____.
Rate _____.
___ Disease _____ Treatment _____.
Rate _____.

Repairs Needed Yes ____ No ____ If yes give brief description, _____

_____.

Replacements Needed Yes ____ No ____.

Replacement list

____ Trees #__ Type _____ Size _____ Cause for Replacement _____.

____ Trees #__ Type _____ Size _____ Cause for Replacement _____.

____ Shrub #__ Type _____ Size _____ Cause for Replacement _____.

____ Shrub #__ Type _____ Size _____ Cause for Replacement _____.

____ Ground Covers #__ Type _____ Cause for Replacement _____.

____ Other #__ Type _____ Size _____ Cause for Replacement _____.

____ Mulch: Type _____: Cubic Yards Needed: _____.

Proposed Date to have above work completed _____.

Recommendations and Comments: _____

Contractors Signature

Date

Reviewed by

Date

Contract # _____.
Company _____.

Seminole County Roadway Landscape Maintenance Work Order / Of Completed Services

For the Month of _____.

This list is to be completed for each site and discussed with the designated Inspector prior to beginning work each month.

Cycle ____ Date Completed _____. Cycle ____ Date Completed _____.

Location _____.

Routine Scheduled Visit? Yes ____ No ____ if no Explain _____.

Maintenance Performed

Litter Removal Yes ____ No ____ (If no explain). _____.

Weed Control

____ Mechanical		
____ Herbicide _____	Rate _____	Quantity _____.
____ Pre-emergent _____	Rate _____	Quantity _____.
____ Other _____	Rate _____	Quantity _____.

Pruning

____ Sucker Growth	Plant _____.
____ Damage	Plant _____.
____ Shaping	Plant _____.
____ Frond Removal	
____ Other _____	Plant _____.

Pest Management

____ Insect _____	Treatment _____.
	Rate _____ Quantity _____.
____ Disease _____	Treatment _____.
	Rate _____ Quantity _____.

Was Repairs Completed____. (If no list is comments section)

Was Replacements Completed_____. (If no list is comments section)

General Site Evaluation

Overall Plant Health, Brief Description:_____

Overall Site Conditions, Brief Description:_____

Overall Environmental Conditions, Brief Description: _____

Comments:_____

Contractors Signature

Date

Seminole County Entrance Way Signs

Some sites require some turf cutting, around the outer edge of the bed area. The same scope of service's applies to these locations.

Site #	LOCATION	SQ. FT.	Cost Per Visit
1	US 17/92 @ Volusia County Line (by I-4)	576	
2	SR-426 @ Orange County Line	576	
3	SR - 436 West @ Orange County Line	576	
4	SR - 434 @ Orange County Line	576	
5	SR - 415 @ Volusia County Line	576	
6	SR - 46 @ Lake County Line	576	
7	Wekiwa Springs Rd. @ Orange County Line	576	
8	Dean Rd. @ Orange County Line	576	
9	Bear lk. Rd. @ Volusia County Line	576	
10	CR 419 @ Orange County Line	576	
11	SR - 46 @ Volusia County Line	576	
Total SF		6336	
Total \$			

Please include this cost within the total 656,465 sq ft. of Item #900 of Bid Response Form

CERTIFICATION of INSPECTION of FACILITIES

I hereby certify that I have complied with the Bidder's responsibility to become fully informed as to the nature and extent of the work required and its relation to any other work in the area, and have inspected the locations as required in the terms and conditions of A/B-3035-01/GG.

Signature

Bidder Name

Company

Date

This form shall be completed and returned with your submittal

THIS REFERENCE SET INCLUDES:
LANDSCAPE STANDARDS

INDEX OF LANDSCAPE STANDARDS
SHEET NO. SHEET DESCRIPTION
L-1 KEY SHEET
L-2 GENERAL NOTES
L-3 TYPICAL PLANTING DETAILS
L-4 TO L-6 MEDIAN PLANTING DETAILS
L-7 TO L-8 PLANTING SCHEDULES

SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION



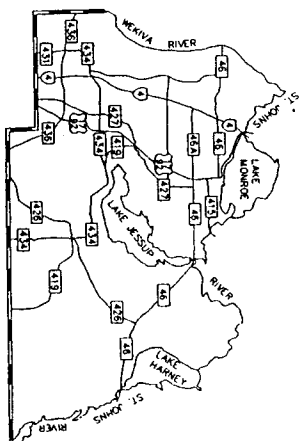
COUNTY ENGINEER
JERRY MCCOLLUM

LANDSCAPE STANDARDS FOR ROADWAY MEDIAN ISLANDS

THESE STANDARDS HAVE BEEN PREPARED IN ACCORDANCE WITH
AND ARE COVERED BY THE STATE OF FLORIDA DEPARTMENT OF
TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS
(BOOKLET DATED JANUARY 1994)

THE SEMINOLE COUNTY TECHNICAL SPECIFICATIONS
FOR ROADWAY LANDSCAPING (CURRENT EDITION)

LENGTH OF PROJECT				
	UN.FT.	MILES	UN.FT.	MILES
ROADWAY	0.000	0.000	0.000	0.000
BRIDGES	0.000	0.000	0.000	0.000
TOTAL LENGTH OF PROJECT	0.000	0.000	0.000	0.000
EXCEPTIONS	0.000	0.000	0.000	0.000
GROSS LENGTH OF PROJECT	0.000	0.000	0.000	0.000



SHEET
L-1

PREPARED BY:



GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT
OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED
JANUARY 1991 AND SUPPLEMENTS THERETO IF NOTED IN THE
SPECIAL PROVISIONS FOR THIS PROJECT.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION.
THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PREPARED FOR: SEMINOLE COUNTY ENGINEERING DIVISION
520 WEST LAKE MARY BOULEVARD, SUITE 200
SANFORD, FLORIDA 32773
(407) 323-2500 EXT. 5703

REVISIONS	
BY	DATE

GENERAL LANDSCAPE NOTES

1. ALL PLANT MATERIAL UNPREFEPPED, PRUNED, UNDEER-SIZED, INTERESTED, DISEASED, OR OTHERWISE NOT TO GRADE OR SIZE INDICATED ON THE PLANS SHALL BE REMOVED AND REPLACED UPON NOTICE FROM EITHER THE COUNTY ENGINEER OR COUNTY LANDSCAPE COORDINATOR OR THEIR ASSIGNED AGENT.
2. ALL PLANTING BEDS AND AREAS AROUND PLANTED TREES SHALL BE COVERED WITH A 3" MINIMUM OF SETTLED AND/OR LIGHTLY COMPACTED MEDIUM FINE SAND. THE DIAMETER OF MULCHED AREAS AROUND TREES SHALL HAVE AT LEAST 2' DIAMETER FOR EVERY 1" CALIPER OF THE TREE.
3. THE PLANT QUANTITIES AND SIZES INDICATED WITHIN THE LANDSCAPE TYPES AND QUANTITY SCHEDULES ARE MINIMUMS AND FOR THE CONVENIENCE IN ESTIMATING IN CASE OF A DISCREPANCY, THE MINIMUM SIZES, OR CENTER SPACING, AND PLANT LAYOUT INDICATED SHALL GOVERN THE QUANTITIES REQUIRED.
4. ALL PLANTING/LANDSCAPE WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A QUALIFIED AND KNOWLEDGEABLE LANDSCAPE FOREMAN, AND BY PERSONS EXPERIENCED WITH COMMERCIAL, HORTICULTURAL PRACTICES AND PROCEDURES FOR THE TYPE OF PLANT MATERIAL INDICATED IN THE PLAN LAYOUTS AND PLANTING SCHEDULES.
5. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, AND STATE CODES, ORDINANCES, AND CRITERIA AND OBTAIN ALL PERMITS, BONDS, ETC. NECESSARY TO CONSTRUCT AND/OR INSTALL THE PLANTING/LANDSCAPING WITHIN THE LAYOUTS AND SCHEDULES.
6. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ALL OTHER CONTRACTORS ON THE PROJECT TO ASSURE EFFICIENT AND TIMELY COMPLETION OF THE PLANTING/LANDSCAPING WORK WITHIN THE LAYOUTS AND SCHEDULES.
7. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, AND APPURTENANCES IN THE PERFORMANCE OF THE PLANTING/LANDSCAPING WORK WITHIN THE LAYOUTS AND SCHEDULES.
8. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING GRADES, DIMENSIONS, AND FIELD CONDITIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF BOTH THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR, OR THEIR ASSIGNED AGENT, FOR A DECISION BEFORE PROCEEDING WITH OR SCHEDULING THE WORK.
9. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PROTECT AND KEEP FREE FROM OBSTRUCTION ANY AND ALL EXISTING STRUCTURES, PAVED AREAS, UTILITY SERVICES, ETC. REQUIRED BY CODES TO PROPERLY REPAIR OR REPLACE THE TREES/PLANT MATERIAL.
10. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS AND UNSUITABLE OR SURPLUS MATERIAL FROM THE PROJECT SITE WHICH IS GENERATED BY THE PLANTING/LANDSCAPE WORK.
11. A PLANTING SOIL BACKFILL SHALL BE USED IN SHRUB AND GROUND COVER PLANTING BEDS AND IN PLANTING AREAS. IT SHALL BE A GOOD QUALITY LOCAL OR COMMERCIAL SOIL MIXTURE, FREE OF NOXIOUS WEEDS OR SEEDS AND OTHER MATERIAL DETRIMENTAL TO PLANT LIFE, AS WELL AS, BALANCED TO MEET THE FUTURE GROWTH REQUIREMENTS OF THE PLANT MATERIALS.
12. SHOULD ANY EXISTING TREES WITHIN THE DEVELOPMENT/RIGHT-OF-WAY AREA BE SCHEDULED TO BE SAVED, THE GENERAL CONTRACTOR AND/OR LANDSCAPE CONTRACTOR SHALL ERECT AND MAINTAIN PROPER TREE PROTECTION BARRIERS AROUND THE TREES THROUGHOUT ALL THE PROJECT WORK. SHOULD THE SCHEDULED TREES/PLANT MATERIAL WITHIN THE PROTECTED AREA BECOME INJURED, DAMAGED, OR REMOVED, THE GENERAL CONTRACTOR AND/OR LANDSCAPE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS, ETC. REQUIRED BY CODES TO PROPERLY REPAIR OR REPLACE THE TREES/PLANT MATERIAL.
13. NO CANOPY, UNDERSTORY, OR PALM TREE SHALL BE PLANTED CLOSER THAN 5' FROM THE BACK OF THE SIDEWALK, OR 8' FROM THE EDGE OF ROADWAY PAVEMENT.
14. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL GET WRITTEN PERMISSION FROM BOTH THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR, OR THEIR ASSIGNED AGENT, BEFORE MAKING ANY SUBSTITUTIONS OF PLANT MATERIAL, MODIFICATIONS TO THE PLANT LAYOUTS, OR OTHER LANDSCAPING/PLANTING ADJUSTMENTS.
15. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL REMOVE ALL PLANT MATERIALS AND PLANTING INSTALLATIONS FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE COUNTY.
16. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PROVIDE ALL PLANT MATERIAL MAINTENANCE, ETC., TO ASSURE SURVIVABILITY AND NORMAL GROWTH VIABILITY THROUGHOUT THE ENTIRE PROJECT PERIOD. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN AND/OR REPLACE THE PLANT MATERIAL FROM THE DATE OF ACCEPTANCE BY THE COUNTY. SHOULD COUNTY RANDOM INSPECTIONS CONDUCTED AT ANY TIME DURING THE PROJECT PERIOD NOT BEING ACHIEVED, THEN THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL CORRECT THE PROBLEM SITUATION, REMOVE AND REPLACE THE PLANT MATERIAL, IF NECESSARY, AND RE-WARRANTY FOR ANOTHER YEAR THE PLANT MATERIAL AT HIS/HER EXPENSE.
17. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PERFORM SOIL TESTS WITHIN THE PLANTED/LANDSCAPED AREAS AT HIS/HER EXPENSE TO ASSURE PLANT SURVIVABILITY AND NORMAL GROWTH VIABILITY OF THE PLANT MATERIAL.
18. SHOULD LOCAL, COUNTY, STATE, OR COMMERCIAL HORTICULTURAL CODES, ORDINANCES, CRITERIA, GUIDELINES, PRACTICES, OR PROCEDURES CONFLICT WITH THESE PLAN LAYOUTS, DETAILS, OR SPECIFICATIONS, THEN THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL ASSUME THAT THE STRICTER OR MORE STRINGENT SHALL APPLY TO THE PLANTING/LANDSCAPING WORK HEREIN.
19. THE MAJOR BRANCHING STRUCTURE OF ANY CANOPY, UNDERSTORY, OR PALM TREE SHALL NOT INTERFERE WITH ANY OVERHEAD UTILITY LINES, AND, FUTURE FLOODING STRUCTURE SHALL NOT INTERFERE WITH UNDERGROUND UTILITIES OR PROJECT PAVED AREAS.
20. THE 1934 FLORIDA DEPARTMENT OF TRANSPORTATION HORIZONTAL AND VERTICAL CLEAR SIGHT ZONES AND SIGHT LINE DATA ARE TO BE ACHIEVED TO LANCES OTHERWISE DIRECTED BY THE COUNTY ENGINEER OR DESIGNATED AGENT.
21. ALL LANDSCAPED AREAS WITHIN THE PLAN LAYOUTS INCLUDING SOI SHALL BE PLANTED/LANDSCAPED WITH FLORIANUM S7, ADJUSTIVE (STEINBOG-HILM AKA FLORIANUM FLOREANUM) SOI WITHIN ANY IMPROVED AREAS OR, ARGENTINE BAHIA (PASPALUM NOTARIUM ARGENTINE) SOI WITHIN ANY NON-IMPROVED AREAS.
22. NEAR THE CORNERS OF INTERSECTIONS ALONG THE RIGHT-OF-WAY LINES, NO CURRENT OR FUTURE GROWTH HABIT OF PLANT MATERIAL SHALL CREATE A VISUAL OBSTRUCTION BETWEEN 2' IN HEIGHT AND 8' IN HEIGHT WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION'S CLEAR SIGHT ZONES OR SIGHT LINES.
23. THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PERFORM ASSOCIATION TESTS WITHIN THE PLANTING/LANDSCAPING WORK AREAS TO ASSURE THAT ALL PLANT MATERIAL SHALL HAVE ADOPTIVE SUBGRADE DRAINAGE TO SURFACE AND ADOPTIVE NORMAL SLOPE WITHIN THROUGHOUT THE ANTICIPATED NATURAL LIFE OF THE PLANT MATERIALS. SHOULD ADOPTIVE DRAINAGE CONDITIONS EXIST, THEN THE LANDSCAPE CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PROVIDE THE NECESSARY SUBGRADE CHANNEL STRUCTURES AT HIS/HER EXPENSE AS PRESCRIBED BY THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR, OR THEIR ASSIGNED AGENT.
24. NO PALM TREE SHALL BE PLANTED CLOSER THAN 40' ON CENTER, NO UNDERSTORY TREE SHALL BE PLANTED CLOSER THAN 20' ON CENTER, AND NO PALM TREE SHALL BE PLANTED CLOSER THAN 10' ON CENTER WITHIN THE RIGHT-OF-WAY.
25. ALL EXISTING VEGETATION THAT IS OBSERVED DURING THE LANDSCAPING OPERATIONS SHALL BE REPLACED IN KIND OR WITH COUNTY APPROVED EQUIVALENT BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.
26. ALL WERB AND MATERIALS FOR LANDSCAPING SHALL BE IN COMPLIANCE WITH SEWAGE COUNTY'S TECHNICAL SPECIFICATIONS FOR ROADWAY LANDSCAPING UNLESS OTHERWISE DIRECTED BY THE COUNTY.
27. THE COST OF ALL ITEMS NECESSARY TO ADOPTIVE AS SPECIFIED IN THE CONTRACT BID DOCUMENTS THAT ARE NOT OTHERWISE DETAILED AS SPECIFIC ITEMS SHALL BE INDICATED TO THE ITEMS ASPECT OF THE LOW BID PRICE.
28. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ANY AND ALL UTILITY OWNERS OF WERBAND CONSTRUCTION AND CONSTRUCTION WORK PROJECTS FOR THE LANDSCAPE WORK TO PROCEED.

GENERAL IRRIGATION NOTES

1. THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR HAVE DECIDED THAT ALL THE PLANT MATERIAL (TREES, SHRUBS, AND/OR GROUND COVERS) WITHIN THE LAYOUTS AND SCHEDULES SHALL NOT BE INSTALLED UNLESS AN IRRIGATION SYSTEM DESIGN/DESIGN/RECOMMENDED WATER HAS BEEN INSTALLED WITHIN THOSE AREAS.
2. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL SUBMIT TO THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR, OR THEIR ASSIGNED AGENT, COMPLETE, EFFICIENT, AND EFFECTIVE IRRIGATION DESIGN PLANS FOR AN IRRIGATION SYSTEM TO BE INSTALLED WITHIN THE PLANTED/LANDSCAPED AREAS WITHIN THE RIGHT-OF-WAY FOR REVIEW AND APPROVAL.
3. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL ADJUST THE THROW AND PATTERN OF EACH INSTALLED IRRIGATION HEAD TO MINIMIZE OVERSPRAY, RUFOFF, OR WIND DIRECTED IRRIGATION WATER ONTO ALL PAVED AREAS, IMPERVIOUS AREAS, OR OTHER STRUCTURES.
4. SHOULD THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR WISH TO IRRIGATE GRASSED OR SOODED AREAS WITHIN THE RIGHT-OF-WAY, HE/ SHE/ THEY SHALL ASSURE THE COUNTY THAT ALL TREE, SHRUB, AND/OR GROUND COVER AREAS ARE ON SEPARATE IRRIGATION ZONES OR STATIONS FROM THE GRASSED OR SOODED AREAS.
5. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PROVIDE ADEQUATELY SIZED IRRIGATION SLEEPING, OR SCHEDULE 40 OR HIGHER, FOR ALL IRRIGATION MANLINE PIPING, ZONE/LATERAL PIPING, AND/OR CONTROLLER WIRING RUNNING UNDER ALL DRIVEWAYS, ROADWAYS, OR OTHER PAVED AREAS TO ACCOMMODATE THE IRRIGATION SYSTEM TO ALL PLANTED/LANDSCAPED AREAS WITHIN THE RIGHT-OF-WAY.
6. THE IRRIGATION CONTRACTOR SHALL REFER TO THE LANDSCAPING AND ROADWAY PLANS WITHIN THE RIGHT-OF-WAY.
7. ALL IRRIGATION PIPING WITHIN THE RIGHT-OF-WAY SHALL HAVE MINIMUM BURIAL DEPTHS AS FOLLOWS: IRRIGATION MANLINE A MINIMUM COVER OF 18"; IRRIGATION ZONE/LATERAL PIPING A MINIMUM COVER OF 12" AND, ANY SUBSURFACE MICRO-IRRIGATION LINES A MINIMUM COVER OF 3" TO 4".
8. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL INDIVIDUALLY SET EACH IRRIGATION CONTROLLER STATION TO APPLY A MAXIMUM OF ONE INCH OF WATER PER WEEK IN EACH IRRIGATION ZONE/LATERAL PER LOCAL EXAMINATION/INSPECTION PAGES AFTER THE INITIAL WATERING IN PERIOD.
9. SHOULD ANY DISCREPANCY IN THE IRRIGATION SYSTEM BE OBSERVED, THE IRRIGATION CONTRACTOR SHALL CORRECT THE DISCREPANCY IN PERIOD.
10. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, AND STATE CODES, ORDINANCES, AND CRITERIA AND OBTAIN ALL NECESSARY PERMITS, LICENSES, ETC. FOR INSTALLING THE IRRIGATION SYSTEM WITHIN THE RIGHT-OF-WAY FOR THE PROJECT WORK.
11. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL COORDINATE HIS/HER IRRIGATION SYSTEM WORK WITH ALL OTHER CONTRACTORS TO ASSURE EFFICIENT AND TIMELY COMPLETION OF THE TOTAL PROJECT.
12. ALL IRRIGATION WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A QUALIFIED AND KNOWLEDGEABLE IRRIGATION FOREMAN, AND BY PERSONS EXPERIENCED WITH COMMERCIAL IRRIGATION PRACTICES AND PROCEDURES, AND IN ACCORDANCE WITH THE LOCAL, COUNTY, STATE, AND THE FLORIDA IRRIGATION SOCIETY'S CODES, STANDARDS, AND SPECIFICATIONS AND/OR MANUFACTURER'S SPECIFICATIONS.
13. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, PAVED AREAS, UTILITY SERVICES, EXISTING PLANT MATERIAL, SCHEDULED TO BE SAVED, OTHER EXISTING ITEMS OR STRUCTURES, AND BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT IF DAMAGED BY HIS/HER.
14. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS AND UNSUITABLE OR SURPLUS MATERIAL FROM THE PROJECT SITE WHICH IS GENERATED FROM THE IRRIGATION WORK.
15. WHENEVER THERE IS A CONFLICT BETWEEN THE IRRIGATION PLANS, SPECIFICATIONS, CODES, ETC., THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL ASSUME THAT THE STRICTER OR MORE STRINGENT SHALL APPLY TO THE PROJECT IRRIGATION WORK.
16. ALL IRRIGATION CONTROLLER FIELD WIRING SHALL BE UL LISTED DIRECT BURIAL SOLID COPPER LINES SIZED TO ACTIVATE FROM THE CONTROLLER TO THE REMOTE CONTROL VALVES AT THE REQUIRED DISTANCES. ALL WIRING SPACES SHALL BE MADE IN VAULT BOXES.
17. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL MAKE NO IRRIGATION SYSTEM SUBSTITUTIONS FROM THE APPROVED PLANS WITHOUT THE WRITTEN PERMISSION OF BOTH THE COUNTY ENGINEER AND COUNTY LANDSCAPE COORDINATOR, OR THEIR ASSIGNED AGENT.
18. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL SUPPLY THE COUNTY, OR THE COUNTY DESIGNATED MAINTENANCE ORGANIZATION/ AGENCY, WITH ALL NECESSARY INFORMATION AND DEVICES NECESSARY TO CREATE AND MAINTAIN THE ENTIRE IRRIGATION SYSTEM IN AN EFFICIENT AND EFFECTIVE MANNER.
19. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL WARRANT ALL IRRIGATION SYSTEM COMPONENTS, WORKMANSHIP, AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE COUNTY.
20. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL DESIGN THE ENTIRE IRRIGATION SYSTEM, AS MUCH AS HUMANLY POSSIBLE, TO REMOVE MINOR OR ELIMINATE POTENTIAL LIABILITY SITUATIONS AND WATER WASTES WITHIN THE RIGHT-OF-WAY, AND, ON ADJACENT PROPERTIES.
21. THE COUNTY ENCOURAGES THE USE OF MORE EFFICIENT AND ECONOMIC TYPES OF MICRO-IRRIGATION SYSTEMS VERSUS MACRO-IRRIGATION TYPE SYSTEMS WITHIN THE RIGHT-OF-WAY FOR ALL PLANT MATERIALS.
22. THE IRRIGATION CONTRACTOR AND/OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, WATER AND ELECTRICAL SERVICE CONNECTIONS, APPURTENANCES, ETC. IN THE PERFORMANCE AND INSTALLATION OF THE ENTIRE IRRIGATION SYSTEM.

GENERAL NOTE

DESIGN AND/OR CONSTRUCTION OF AN IRRIGATION SYSTEM IS NOT PART OF THE WORK IN THE CONTRACT UNLESS IT IS SPECIFICALLY DETAILED AND REQUIRED BY THE RELEVANT LANDSCAPE PLAN SHEETS.

GENERAL NOTES AND LANDSCAPE STANDARDS

NOT TO SCALE



SHOULD THE SUBGRADE BE COMPACTED, OR CONTAIN POORLY DRAINING SOILS, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITUATIONAL ANALYSIS, PROVIDING A COUNTY APPROVED REDUCTION PLAN AND IMPLEMENTATION OF THE APPROVED PLAN.

NOT TO SCALE

2004, 2005, 2006

NOT TO SCALE



NOT TO SCALE

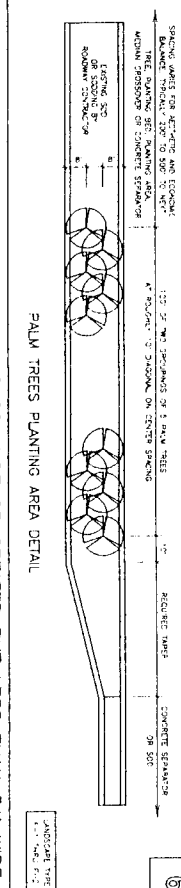
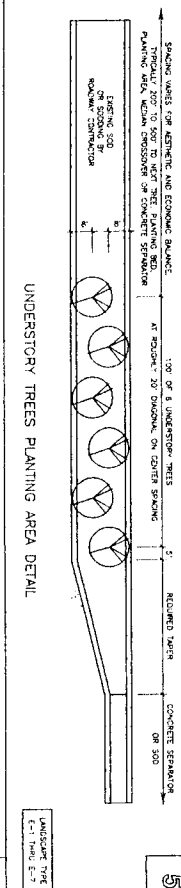
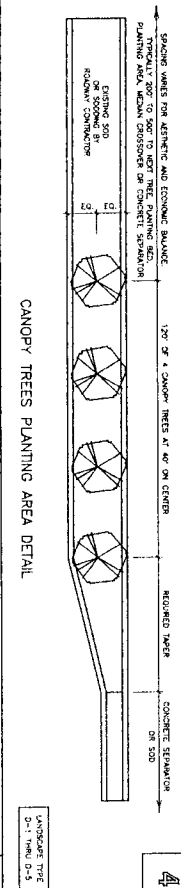
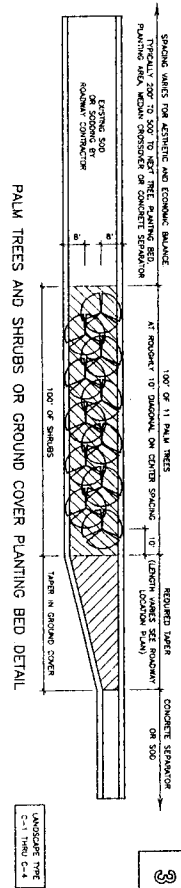
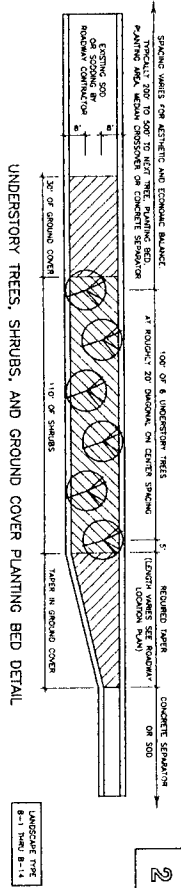
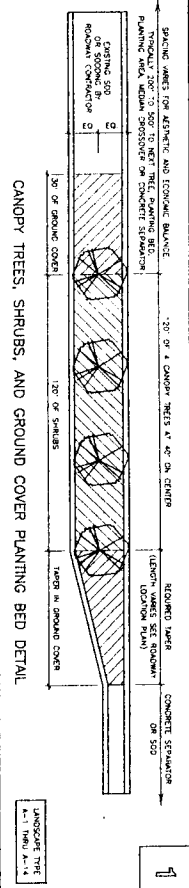


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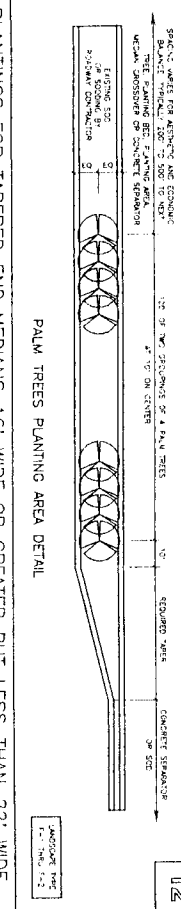
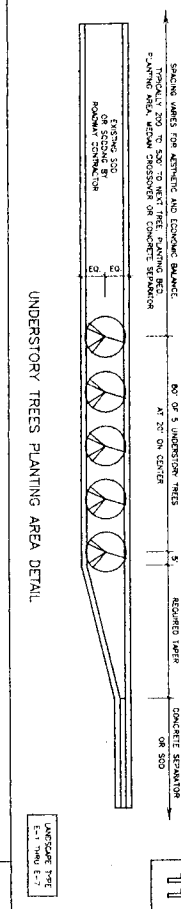
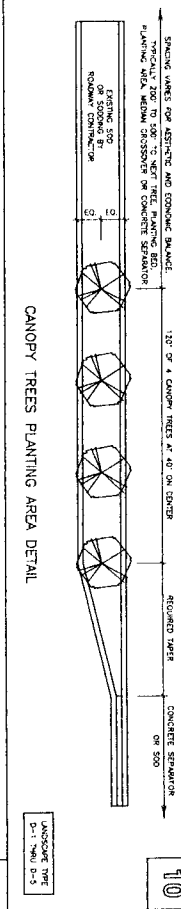
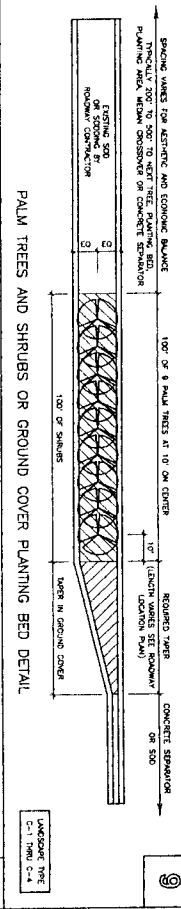
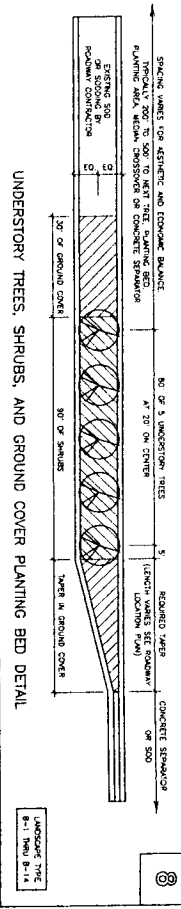
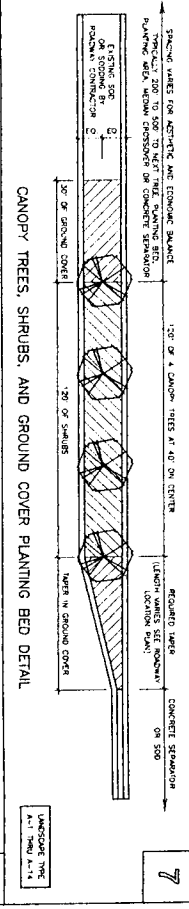
Journal of Management Inquiry 20(6) 798-814
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FUTURE EXPANSION WITH MINIMUM LOSS OF PLANTINGS.

3. GENERAL NOTES 1. SEE SPEC. 2.		NAME DATE C.W. 09/96 C.H.C. 02/97		NAME DATE D.W. 09/96 F.P. 02/97		SECOND COUNTY ENGINEERING DIVISION APPROVED BY DATE
DATE BY DESIGNATION SUPERVISOR BY: DAVID WICKHAM & ASSOCIATES INC.		DATE BY DESIGNATION SUPERVISOR BY:		DATE BY DESIGNATION SUPERVISOR BY:		



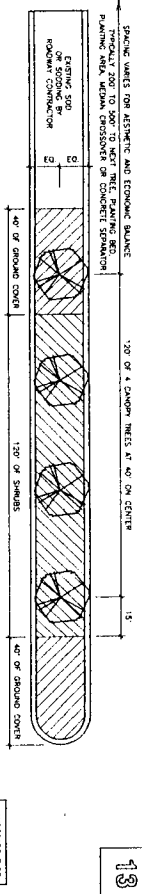
PLANTINGS FOR TAPERED END MEDIANS 22' WIDE OR GREATER BUT LESS THAN 34' WIDE



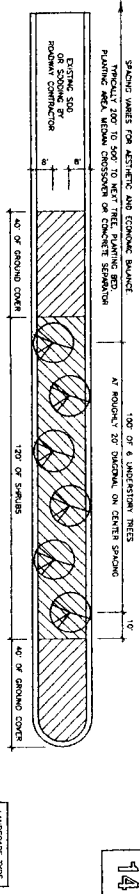
PLANTINGS FOR TAPERED END MEDIANS 16' WIDE OR GREATER BUT LESS THAN 22' WIDE

MEDIAN PLANTING DETAILS AND LANDSCAPE STANDARDS

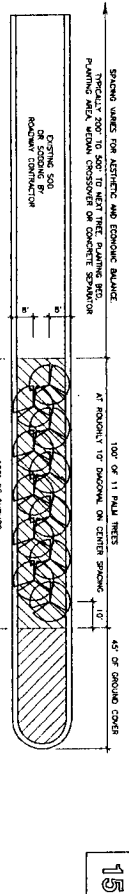
NOTE : SEE SHEETS L-2 & L-3 FOR GENERAL NOTES AND TYPICAL PLANTING DETAILS ; SHEETS L-7 & L-8 FOR THE PLANTS WITHIN THE LANDSCAPE AND LANDSCAPE TYPES ON THE PLANTING SCHEDULES AND SHEET L-3 FOR DETAIL NOTE CONCERNING PLANTINGS IN MEDIANS 34' OR GREATER



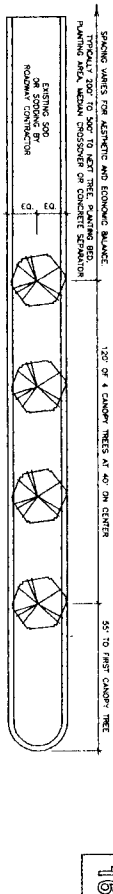
CANOPY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL



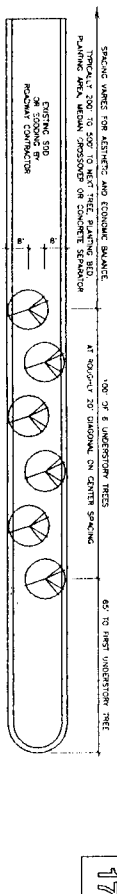
UNDERSTORY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL



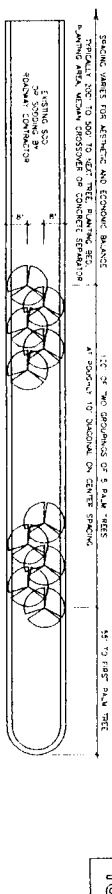
PALM TREES AND SHRUBS OR GROUND COVER PLANTING BED DETAIL



CANOPY TREES PLANTING AREA DETAIL

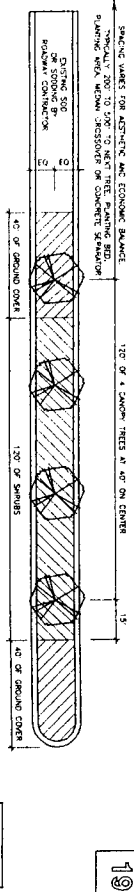


UNDERSTORY TREES PLANTING AREA DETAIL

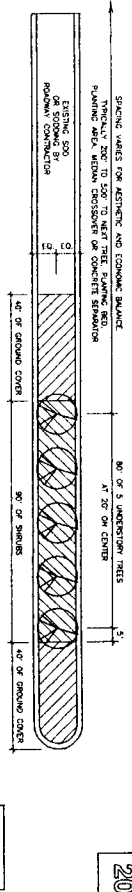


PALM TREES PLANTING AREA DETAIL

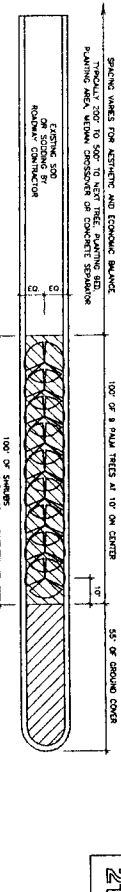
PLANTINGS FOR CROSSOVER MEDIAN 22' WIDE OR GREATER BUT LESS THAN 34' WIDE



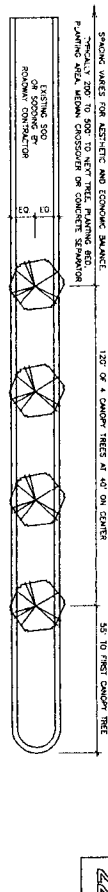
CANOPY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL



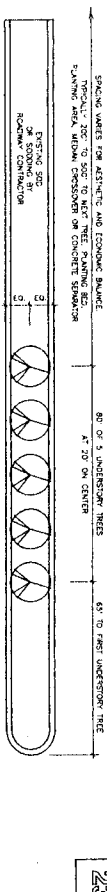
UNDERSTORY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL



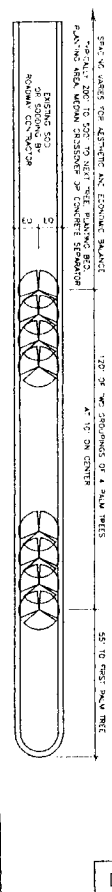
PALM TREES AND SHRUBS OR GROUND COVER PLANTING BED DETAIL



CANOPY TREES PLANTING AREA DETAIL



UNDERSTORY TREES PLANTING AREA DETAIL



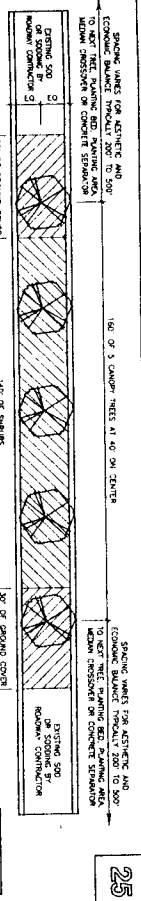
PALM TREES PLANTING AREA DETAIL

PLANTINGS FOR CROSSOVER MEDIAN 16' WIDE OR GREATER BUT LESS THAN 22' WIDE

MEDIAN PLANTING DETAILS AND LANDSCAPE STANDARDS

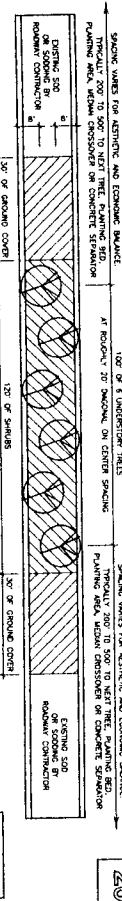
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SHEET
L-5



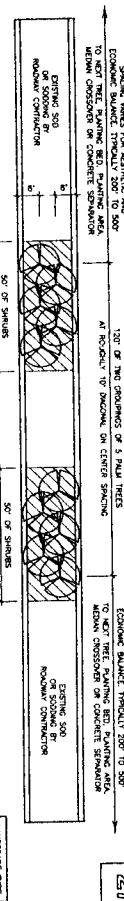
CANOPY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL

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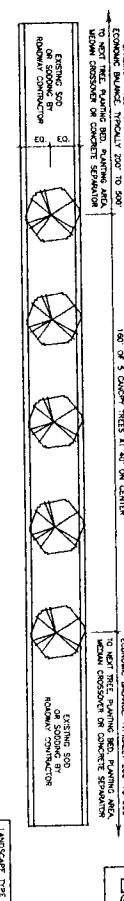
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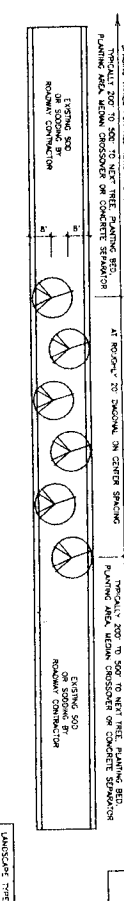
PALM TREES AND SHRUBS OR GROUND COVER PLANTING BED DETAIL

27



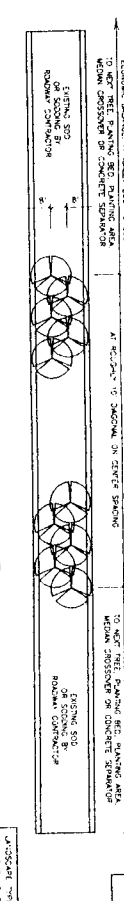
CANOPY TREES PLANTING AREA DETAIL

28



UNDERSTORY TREES PLANTING AREA DETAIL

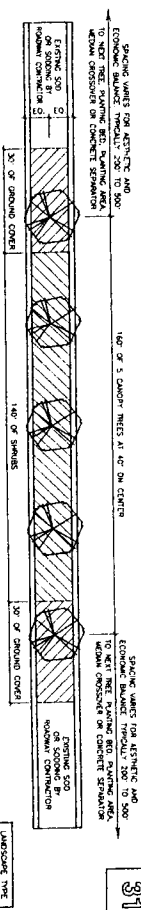
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PALM TREES PLANTING AREA DETAIL

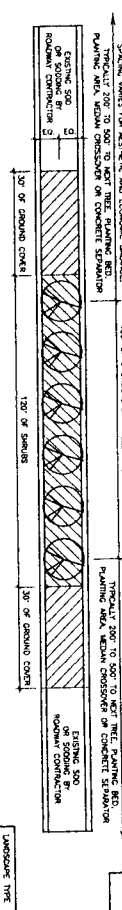
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PLANTINGS FOR INTERMEDIATE MEDIANS 22' WIDE OR GREATER BUT LESS THAN 34' WIDE



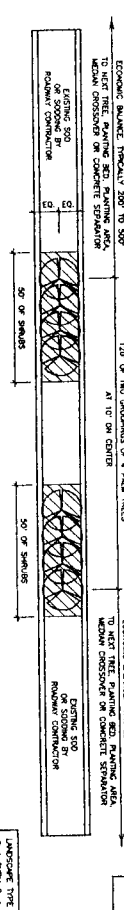
CANOPY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL

31



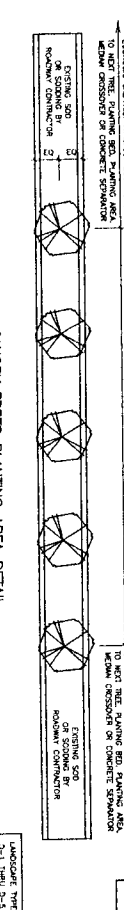
UNDERSTORY TREES, SHRUBS, AND GROUND COVER PLANTING BED DETAIL

32



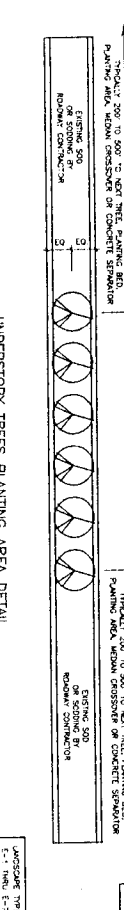
PALM TREES AND SHRUBS OR GROUND COVER PLANTING BED DETAIL

33



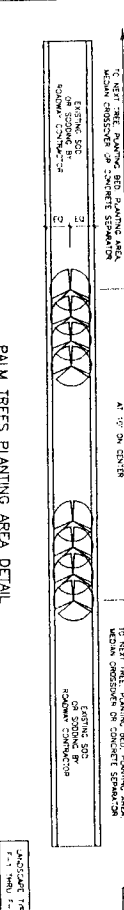
CANOPY TREES PLANTING AREA DETAIL

34



UNDERSTORY TREES PLANTING AREA DETAIL

35



PALM TREES PLANTING AREA DETAIL

36

PLANTINGS FOR INTERMEDIATE MEDIANS 16' WIDE OR GREATER BUT LESS THAN 22' WIDE

NOTE : SEE SHEETS L-2 & L-3 FOR GENERAL NOTES AND TYPICAL PLANTING DETAILS ; SHEETS L-7 & L-8 FOR THE PLANTS WITHIN THE LANDSCAPE AND LANDSCAPE TYPES ON THE PLANTING SCHEDULES AND SHEET L-3 FOR DETAIL NOTE CONCERNING PLANTINGS IN MEDIANS 34' OR GREATER

SHEET
L-7

SHEET
L-7

- SHEET
L-7

SHEET
L-7

SHEET
L-7

SHEET
L-7

SHEET
L-7

PALM TREES, SHRUBS, AND GROUND COVERS --- PLANTING SCHEDULE

LANDSCAPE TYPE	TREES	SHRUBS	GROUND COVERS
C-1	Sabal palmetto Cabbage Palm 10'-20' Trunk, Boiled, Match Trunk Heights	llex vomitoria 'Seelings Dwarf' Dwarf Sealing Holly 3 Gal. / 18" x 18" Full / 36" O.C.	Juniperus conferta 'Blue Pacific' Blue Pacific Juniper 3 Gal. / 18" x 18" Full / 36" O.C.
C-2	Sabal palmetto Cabbage Palm 10'-20' Trunk, Boiled, Match Trunk Heights	Rapidoceps indica Indian Hawthorn 3 Gal. / 18" x 18" Full / 36" O.C.	Linnaea mussoni 'Evergreen Giant' Evergreen Giant Lily Turf 1 Gal. / 7-9 Bbs. Full / 24" O.C.
C-3	Washingtonia robusta Washington Palm 10'-20' Trunk, Match Trunk Heights	llex vomitoria 'Seelings Dwarf' Dwarf Sealing Holly 3 Gal. / 12" x 18" Full / 36" O.C.	Juniperus conferta 'Blue Pacific' Blue Pacific Juniper 3 Gal. / 18" x 18" Full / 36" O.C.
C-4	Washingtonia robusta Washington Palm 10'-20' Trunk, Match Trunk Heights	Rapidoceps indica Indian Hawthorn 3 Gal. / 18" x 18" Full / 36" O.C.	Linnaea mussoni 'Evergreen Giant' Evergreen Giant Lily Turf 1 Gal. / 7-9 Bbs. Full / 24" O.C.

CANOPY TREES --- PLANTING SCHEDULE

LANDSCAPE TYPE	TREES	SHRUBS	GROUND COVERS
D-1	Quercus laurifolia Live Oak 12'-14' HT. 7'-8" SPD. 4" Caliper, 6' Clear Trunk	N/A	N/A
D-2	Quercus virginiana Live Oak 12'-14' HT. 7'-8" SPD. 3" Caliper, 6' Clear Trunk	N/A	N/A
D-3	Magnolia grandiflora Southern Magnolia 12'-14' HT. 7'-8" SPD. 4" Caliper, 6' Clear Trunk	N/A	N/A
D-4	Quercus shumardii Shumard Oak 12'-14' HT. 7'-8" SPD. 4" Caliper, 6' Clear Trunk	N/A	N/A
D-5	Taxodium distichum Red Cypress 12'-14' HT. 7'-8" SPD. 4" Caliper, 6' Clear Trunk	N/A	N/A

UNDERSTORY TREES --- PLANTING SCHEDULE

LANDSCAPE TYPE	TREES	SHRUBS	GROUND COVERS
E-1	llex attenuata 'East Palatka' East Palatka Holly 10'-12' HT. 4'-5" SPD. 3" Cal. 6' C.T., Standard	N/A	N/A
E-2	Loganstraea indica 'Natchez' Natchez Cape Wyle 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T., Standard	N/A	N/A
E-3	Ulmus parvifolia 'Dwarf' Dwarf Elm 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T.	N/A	N/A
E-4	Prunus x Proserpina Fraser Pleading Tree 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T., Standard	N/A	N/A
E-5	Ligustrum lucidum Glossy Privet 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T., Standard	N/A	N/A
E-6	Loganstraea indica 'Tussock' Tussock Cape Wyle 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T., Standard	N/A	N/A
E-7	Ulmus omis Winged Elm 10'-12' HT. 7'-8" SPD. 4" Cal. 6' C.T.	N/A	N/A

PALM TREES --- PLANTING SCHEDULE

LANDSCAPE TYPE	TREES	SHRUBS	GROUND COVERS
P-1	Sabal palmetto Cabbage Palm 10'-20' Trunk, Boiled, Match Trunk Heights	N/A	N/A
P-2	Washingtonia robusta Washington Palm 10'-20' Trunk, Boiled, Match Trunk Heights	N/A	N/A